2012

INSTALLER'S GUIDE

ecler

Sound experience

Barcelona 1965

INSTALLER'S GUIDE 2012

Throughout these nearly 50 years, since Ecler's birth back in 1965, we have always developed our catalogue trying to listen to you.

Today we still keep this aim untouched. We understand that these days technology, quickly changing, must be a flexible tool to provide global and integrable solutions, more than just individual products.

We keep focussing on innovation and design, both essential. And we spot how they really add value: amazing features combined with a user-friendly and ergonomic approach for the end-user, the non-technical character of the story, but indeed the main one.

We realise that today AV integration has become a growing and solid market, frequently encouraging companies towards a global scope, which requests for global partners, as we are.

A global green awareness is, happily, growing as well. We are proud of being part of this vital commitment, taking care of the planet with products designed for energy-saving and manufactured with sustainable policies.

With the present catalogue we are ready to offer you a quality sound solution for every installation and integration challenge you may face up. This was the goal, and we honestly think it's been achieved.

Ecler. Innovating with you.

VALUES

EXPERIENCE

We're proud to approach our 50 years of know-how designing and manufacturing professional audio solutions.
Reliability is a must. All ECLER products are designed to deliver a long, solid and failure-free working life, even in extreme use conditions, thereby guaranteeing low MTBF (Mean Time Between Failures) ratios.
We individually test 100% of our products, avoiding the typical random samples testing procedures in the industry.
This leads us to a entirely TRUSTWORTHY manufacturing.
Quality. ECLER is an ISO 9001 certified company.

INOVATION

ECLER firmly believes that INNOVATION is essential in providing the market with audio solutions that require a pioneer approach.
SPM amplification patented technology and EclerNet proprietary hardware&software platform, including Ethernet remote control of the MIMO 88 digital matrix and NZA/NPA amplifiers, are clear examples of our achievements.

ERGONOMICS

Versatility. Our products have been designed to meet the technical and user requirements of a wide range of applications and environments.
A good example is our FLEXIPOWER concept on the HZAF multichannel amplifier series: a single product that can offer multiple power combinations, hence matching multiple installation needs.
Ergonomics. ECLER cares about control interfaces being as much user-friendly as possible.

DESIGN

ECLER has been the first pro audio company to partner with the famous Italian industrial designer Giugiaro (www.italdesign.it).
The results of our collaboration are the loudspeaker cabinet series AUDEO and VERSO.

GREEN

We're really committed with the planet's health, energy saving and CO2 emission reduction.
SPM Technology, classs D amplifiers, switching power supplies and auto-standby function provide our electronics with higher efficiency and lower energy wasting.
Recycling materials and using non-contaminant components are also top priorities in our green crusade.

GLOBAL

Our philosophy is to provide our customers with a global solution.
Firstly, this involves offering an extensive range of products under one single and solid roof.
Secondly, to operate in more than 50 countries. People are one of our chief assets: a wide distribution network, relational marketing, product specialists, our own projects department, technical assistance service, training and cooperation... all with a view to better understanding what is required from our company and our SERVICE.
Because global customers deserve a global solution.
One supplier, a global partnership.

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SAM312 Key features

- 3 input channels, 2 main outputs 19" installation mixer
- 3 MIC/stereo LINE input channel mixer
- Input signal pushbutton selector (MIC/LINE) on back panel
- Dedicated "Low Line" input with adapated sensibility for low level line signal sources, like mp3 players (iPod®, etc.) and laptop computers
- Independent internal assignable phantom power for all MIC inputs
- Direct MIX input allows straight forward connection of further mixers
- Triple tone control (accessible only with screwdriver)
- 2 stereo outputs
- 3 led output level metre
- 2 additional stereo REC outputs (REC1, REC2)
- Mono mode pushbutton
- Headphones general MIX monitoring
- Full remote MUTE control
- Side rack mount ears with 2 possible positions, for front panel alignment with devices in the same rack

SAM412T Key features

- 4 MICRO/LINE input channels with independent 3 band tone control 19" installation mixer
- 4 channels with 2 selectable inputs per channel (balanced micro, line)
- Dedicated "Low Line" input with adapted sensibility for low level line signal sources, like mp3 players (iPod®, etc.) and laptop computers
- Micro sensitivity level can be adjusted on the back panel
- +18V Phantom Power available in all "MIC" inputs
- Direct micro input on front panel, channel 1
- Includes a talkover assigned to "INPUT 1" with internal release time adjustment
- Three-band tone controls for each channel, accessible with a screwdriver
- Vu-meter for the mix signal
- Output level control
- Two internally adjustable output levels
- Recording output
- Direct access to the mixing bus allowing you to connect another mixer and increase the number of inputs
- Remote MUTE control affecting all inputs for connecting fire detection systems and/or other safety devices. Internally programmable "NO / NC" (normally open, normally closed)
- Mono/stereo switch
- Side rack mount ears with 2 possible positions, for front panel alignment with devices in the same rack

Applications

- Gyms
- Licensed venues
- Restaurants
- Leisure venues
- Retail outlets
- Boardrooms and conference centres
- Entertainment music playback
- Education centres
- A/V presentations

Accessories

- **MPAGE1** , desktop paging station (for more information visit the MPAGE series product page)

SERIE SAM

INSTALLATION MIXERS / PREAMPLIFIERS

SAM312, SAM 412T, SAM512T, SAM614T

SAM512T Key features

- 5 input channels, 2 main outputs 19" installation mixer
- 5 MIC/stereo LINE input channel mixer
- Input signal pushbutton selector (MIC/LINE) on back panel
- Dedicated "Low Line" input with adapated sensibility for low level line signal sources, like mp3 players (iPod®, etc.) and laptop computers
- PFL on all inputs for headphone monitoring
- Independent internal assignable phantom power for all MIC inputs
- Channel 1 features integrated TALKOVER on MIC input. Additional front panel MIC connector
- Direct MIX input allows straight forward connection of further mixers
- Triple tone control (accessible only with screwdriver)
- 2 stereo outputs with independent volume control
- 3 LED output level metre
- 2 additional stereo REC outputs (REC1, REC2)
- Mono mode pushbutton
- Full remote MUTE control
- Side rack mount ears with 2 possible positions, for front panel alignment with devices in the same rack

SAM614T Key features

- 6 input channels routable to 2 main outputs. 19" installation mixer
- 6 input channels
- MIC inputs on channels 1 and 2
- Dedicated "Low Line" input with adapted sensibility for low level line signal sources, like mp3 players (iPod®, etc.) and laptop computers
- MIC/stereo LINE in channels 3 and 4. Input signal selector (MIC/LINE) on back panel
- Stereo LINE on channels 5 and 6
- Input signal gain level control (accessible only with a screwdriver)
- Each channel features signal present (SP) and CLIP indicators
- General phantom power switch located on back panel. Independent internal phantom power assignment to any MIC input
- Triple tone control (accessible only with a screwdriver)
- 2 main stereo outputs with independent volume control
- 3 LED output level metre
- Input channels can be routed to any main output (A,B) or both
- 2 additional stereo REC outputs (REC1, REC2)
- Mono mode selector
- Headphones monitoring of selected output (A or B)
- Integrated, internally configurable TALKOVER. Affects OUT A and REC A
- Built-in, internally programmable TALKOVER. Affects OUT A and REC A
- Side rack mount ears with 2 possible positions, for front panel alignment with devices in the same rack

Technical Characteristics		SAM312	SAM412T	SAM512T	SAM614T
Inputs	LINE (1/2/3)	0dBV/50kΩ	0dBV/50kΩ	0dBV/50kΩ	-5dBV/47kΩ
	L LINE (4)	-5dBV/50kΩ	-5dBV/50kΩ	-5dBV/50kΩ	-5dBV/50kΩ
Sensitivity nom(*) Impedance	MIC BAL	-50(-30)dBV*/2.2kΩ	-50(-20)dBV/1kΩ	-50(-30)dBV/2.2kΩ	-45dBV*/1kΩ
	MIX	0(-10)dBV*/>20(>6)kΩ	0dBV>6kΩ	0(-10)dBV*/>20(>6)kΩ	-
Input sensitivity adjust	GAIN	-	-	-	±20dB
Outputs	OUT BAL	0(+6)dBV*/600Ω1(2)V	0(+6)dBV*/600Ω1(2)V	0(+6)dBV*/600Ω1(2)V	0(+6)dBV*/600Ω1(
	OUT UNBAL	0(+6)dBV*/2.2kΩ1(2)V	0(+6)dBV*/2.2kΩ1(2)V	0(+6)dBV*/2.2kΩ1(2)V	0(+6)dBV*/600Ω1(
Level/Minimum load	REC	0dBV/10kΩ	0dBV/10kΩ	0dBV/10kΩ	0dBV/10kΩ
	HEADPHONES	200mW/200Ω	-	200mW/200Ω	230mW/400Ω

		SAM312	SAM412T	SAM512T	SAM614T
Frequency response	LINE	10Hz-55kHz-1dB	10Hz-50kHz-1dB	10Hz-55kHz-1dB	10Hz-30kHz-1dB
	MIC BAL	10Hz-35kHz-1dB	10Hz-30kHz-1dB	10Hz-35kHz-1dB	10Hz-30kHz-1dB
Signal/Noise ratio	LINE	>100dB	>100dB	>100dB	>100dB
	MIC BAL	>85dB	>85dB	>85dB	>80dB
Tone control	BASS	100Hz±15dB	100Hz±15dB	100Hz±15dB	100Hz±12dB
	MID	2kHz±15dB	2kHz±15dB	2kHz±15dB	1.8kHz±15dB
	TREBLE	10kHz±15dB	10kHz±15dB	10kHz±15dB	10kHz±12dB
Talkover		-	TIME 1/2/3 seg*	TIME 1/2/3 seg*	RECOVERY TIME
		-	-30dB	EFFECT -30dB	2 (1-3) seg*
Phantom Voltage		+18VDC	+18VDC	+18VDC	+18VDC
Mains		90-264VCA 47-63Hz	90-264VCA 47-63Hz	90-264VCA 47-63Hz	90-264VCA
Power consumption		18VA	23VA	20VA	29VA
Dimensions	PANEL	482.6x44mm	482.6x44mm	482.6x44mm	482.6x44mm
	DEPTH	195mm	195mm	195mm	195mm
Weight		2.4kg	2.4kg	2.4kg	2.6kg

(*) Internally selectable

COMPACT8 back panel

Versatile laptop and 19" installation mixers. Specially targeted to both non technical and expert users.

COMPACT5 Key features

- Universal 5 channel laptop and 19" installation rack mixer
- 8 LINE inputs, 3 MIC inputs, 2 PHONO inputs
- 2 independent MASTER (1x XLR / 1x RCA) and REC output
- 3 band equalizer per channel
- PFL monitoring. Talkover. Phantom power
- 45mm ECLER faders per channel

COMPACT8 Key features

- Universal 8 channel laptop and 19" installation rack mixer
- 3 Phono inputs
- 7 Stereo Line RCA inputs plus AUX (RCA) inputs in front panel
- 8 MIC (COMBO connector) inputs. Phantom power
- 2 independent outputs (XLR3 and RCA)
- Additional REC output
- 3 band tone control featuring mids 300Hz-6,5kHz semi-parametric equalisation
- Headphones output for PFL and MIX monitoring
- Extra bright 12 position VU-meter
- Assignable talkover with EFFICIENCY and TIME adjustments
- 60 mm high quality ECLER faders
- Specifically developed for applications requiring a large number of micro phone inputs

Technical Characteristics		COMPACT5	COMPACT8
Inputs Sensitivity nom(*)Impedance	LINE (A-B-AUX)	0dBV/50kΩ	0dBV/50kΩ
	PHONO	-40dBV/50kΩ	-40dBV/50kΩ
	MICRO (BAL)	-50dBV/-1kΩ	-50dBV/-1kΩ
	MICRO ATT (BAL)	-	-30dBV/-1kΩ
Outputs Level/Minimum load	OUT 1 (BAL)	0dBV/600Ω 1V*	0dBV/600Ω 1V*(+6dB 2V)
	OUT 2	0dBV/2.2kΩ 1V*	0dBV/2.2kΩ 1V*(+6dB 2V)
	REC	0dBV/10kΩ	0dBV/10kΩ
	HEADPHONES	230mW/400Ω	200mW/200Ω
Frequency response	LINE	10Hz+30kHz-1dB	10Hz+30kHz-1dB
	MICRO BAL	10Hz+25kHz-1dB	10Hz+30kHz-1dB
	PHONO	RIAA±0.5dB	RIAA±0.5dB
Signal/Noise ratio	LINE	>100dB	>100dB
	MICRO	>85dB	>85dB
	PHONO	>90dB	>95dB

		COMPACT5	COMPACT8
Gain control all inputs	GAIN	±20dB	±20dB
Tone control	BASS	100Hz±12dB	90Hz
	MID	1.8kHz±15dB	300Hz+6,5kHz±15dB
	TREBLE	10kHz±11dB	12kHz
Talkover	TIME	0,3/3 seg	0,3/3 seg
	EFFECT	0/-30dB	0/-30dB
Phantom Voltage		+18VDC/5mA max	+18VDC/5mA max
Mains		90-264VAC 47-63Hz	90-264VAC 47-63Hz
Power consumption		28VA	33VA
Dimensions	PANEL	482.6x132.5mm	482.6x177mm
	DEPTH	200mm	221,6mm
Weight		3.7kg	5.2kg

COMPACT5 Applications

- Pubs
- Night Clubs
- Retail Shops
- Fitness Centres

COMPACT8 Applications

- A/V presentations
- Entertainment music playback
- Meeting and seminar rooms
- Education Centres
- Mobile outdoor applications

Double sound source including one FM radio tuner and one multi-format audio player: CD-drive, USB slot and SD card slot readers. The 2VSP includes 3 audio outputs: tuner output, multi-format player output and a third one called PRIORITY, which delivers the same audio as the CD / USB / SD player as long as it is playing, switching to the FM tuner audio when the CD / USB / SD player stops. This way your installation can be always fed with audio contents. Additionally, the Vari-Speed control lets the user change the audio track's tempo, a function especially interesting in fitness applications.

Key features

- Double-deck audio player
- FM TUNER with 60 presets
- CD / USB / SD card readers (PCM and mp3 formats supported)
- Antishock system in CD reader
- FM tuner RCA stereo output
- CD / USB / SD card player RCA stereo output
- PRIORITY RCA stereo output (deliver the same audio as the CD / USB / SD player until it finishes, switching to the FM tuner audio)
- Double front panel LCD display (player and tuner)
- ID3 tags support
- Folders reading support
- IR remote control
- Vari-Speed control for tracks' tempo modification
- REPEAT and PROGRAM functions

The 2VSP integrates a priority output to guarantee that the installation's audio contents or BGM is never stopped

Technical Characteristics	2VSP
Inputs	FM 75 ohm unbalanced antenna terminals USB & SD CARD slots (mp3 reader) CD drive (PCM and mp3 reader)
Outputs	3 x stereo RCA connectors: TUNER, CD and PRIORITY outputs
Nominal output level	1.2V ±2dB
Frequency response	20 Hz ± 1 dB 100 Hz ± 1dB 10 KHz ± 2 dB 20 KHz ± 3 dB
Separation @ 1 KHz	>60dB
THD @ 1 KHz	< 0.15%
S/N ratio	> 80dB
Weight	4 Kg.
Dimensions	482 x 44 x 250 mm (1 RU)

Applications

- BGM audio in single or multi-zone applications
- Fitness
- Fixed sound source in clubs, pubs, etc.

Recommended preamplification

- MIM054 analogue matrix
- MIM088 digital matrix
- SAM series mixers
- COMPACT series mixers

Recommended amplification

- MPA multichannel series
- HZA multichannel 100V line series
- NZA multichannel networkable series
- AMPACK multichannel series

MIMO54

5X4 ANALOG AUDIO MATRIX

WPm SERIES

MPAGE4

MIMO54 is an audio matrix with 5 input sources and 4 zone outputs specially designed for multi-zone sound applications involving source selection and independent volume adjustments. It also includes priority signal and message management for generic and/or evacuation announcements.
Now, the recently upgraded MIMO54 also allows for real-time paging applications, in combination with the optional MPAGE4 desktop paging station.

Key features

- 4 stereo program inputs (two allow MIC/LINE signals, the other two only LINE signals)
- 4 mono zone outputs with two-band tone controls for each output (accessible on the front panel using a screwdriver)
- Selectable Phantom power for the MIC inputs
- Fifth input signal (MIC/LINE) with priority (dual operating mode: PRIORITY/EVACUATION)
- PAGER connector for the MPAGE4 desktop paging station
- Source selection and independent output volume control (per zone)
- Remote control panels connectivity for source selection and zone volume adjustments
- Selection of local or remote zone control mode (from the front panel or from the remote control panels)
- Headphone monitoring section
- Euroblock connectors in inputs and outputs (input no. 1 also includes an XLR connector for the MIC/LINE L signal)
- Front panel controls can be replaced with security caps (included) to prevent undesired manipulation

Accessories

- **MPAGE4** four-zone desktop paging station
- **MPAGE1** single-zone desktop paging station
- **WPmV0L, WPmV0L-SR** and the rest of wall panel remote controls in the WPm series (visit the WPm product page for more information)

Recommended amplification

- Multi-channel MPA series
- Ampack series
- HZA multichannel 100V line series

Applications

- Multi-zone/multi-source management of public address systems with announcements and/or evacuation notices
- Sound in multi-use areas
- Sound with choice of source and remote and independent volume control (by zone)
- Corporate facilities
- Industrial facilities

Technical Characteristics		MIMO54
Inputs Sensitivity nom(*)Impedance	MIC BAL	-50(-20)dBV/>2kΩ
	LINE (1-2-5)	-10dBV/2kΩ
	LINE (3-4)	-10dBV/50kΩ
Outputs Level/Minimum load	OUTPUT BAL	0(+6)dBV*/600Ω(12)V
	HEADPHONES	200mW/200Ω THD 1%
Remote		Analog control
Frequency response	LINE	5Hz-40kHz -3dB
	MIC BAL	5Hz-37kHz -3dB
Harmonic distortion	LINE	<0.08%
	MIC BAL	<0.1%
CMRR	MIC	>70dB@1kHz
Signal/Noise ratio	LINE	>110dB
	MIC BAL	>100dB
Tone control	BASS	100Hz±15dB
	TREBLE	10Hz±15dB

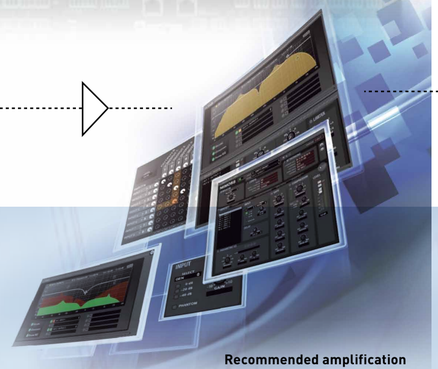
		MIMO54
Talkover	TIME	1 / 2 / 3 seg.*
	EFFECT	-20/-30/-80dB*
Phantom Voltage		+18VDC
Mains		90-264VCA 47-63Hz
Power consumption		29VA
Dimensions	PANEL	482.6x44mm
	DEPTH	195mm
Weight		2.7kg

(*) Internally selectable

MIMO88

8X8 DIGITAL AUDIO MATRIX

MIMO88, MPAGE16, WPTOUCH



MIMO88 is an 8 in / 8 out digital audio matrix, fully programmable and linkable to a second unit to become a 16x16 matrix, with real routing from any input to any output. It can be configured and managed via Ethernet with the included EclerNet Manager software, also offering many other external control options: networked webserver-webclients control system (a graphical, custom-made screen for each user, run from computers, tablets, smartphones, etc.), TP-NET third-party control protocol for the integration with external control hardware like Crestron®, AMX®, RTI®, etc., digital WPTOUCH wall panels, digital MPAGE16 paging station, 8 GPIO ports, etc. using the MIMO88 Ethernet or RS-232 ports.

Key features

- 8 MIC/LINE balanced inputs, with phantom power selection and mono or stereo management
- 8 balanced outputs with mono or stereo management
- 2 additional monitoring outputs
- Expandable to 16 inputs / 16 outputs to become a real 16 x 16 matrix (using the digital audio bus between MIMO88 units, a CAT5 connection which can handle 100 meter distances)
- Ethernet and RS-232 comm ports
- 8 GPI ports (General Purpose Inputs): 0-10 VDC control inputs assignable to MIMO functions, like volume control, MUTE, preset recall, etc.
- 8GPO ports (General Purpose Outputs): relay contacts to remote control external devices, like motors, lights, etc.
- Digital control bus for the WPTOUCH (digital touch-sensitive) wall panel and the MPAGE16 (digital & touch sensitive paging station)
- Fully programmable and controllable via EclerNet software (with a straight PC-MIMO88 cable connection or by means of an Ethernet network)
- Ethernet remote control, based on webserver multiple clients: the EclerNet Manager projects can include several control panels, which have been customised for the needs of each user. The panels can be recalled and operated from client devices such as computers, tablets, smartphones, etc. (an Internet browser is used as the client app.)
- A few processing bits: signal generator, delays, full parametric EQ filters at inputs and outputs, inputs noise gate, level, mute, phase, vu-meters, outputs compressor / limiter, ducking (priority & overriding), virtual and physical paging stations management, automatic mixer function, presets save & recovery, scheduled events triggering

Applications

- Centralized, distributed or hybrid fixed installation
- BGM & Paging solutions, with message priorities and source/volume independent selection
- Integration in installation global control systems
- Conferencing (automatic mixing)
- P.A. management (multi-way speaker processing, delay adjustment, etc.)
- Installations requiring remote supervision, diagnostic and adjustment via Internet
- Live sound (WiFi management is possible from a PC, tablet, smartphone, etc.)

Accessories

- **WPTOUCH** touch-sensitive digital wall panel control
- **MPAGE16** touch-sensitive digital paging station
- **WPm-series** wall panel controls
- Webserver client devices: computers, smartphones, tablets, etc. using their web browsers to recall customised UCP (User Control Panels) contained in the EclerNet Manager project

Recommended amplification

- MPA multichannel series
- HZA multichannel 100V line series
- NZA multichannel networkable series
- NPA stereo networkable series

8X8 DIGITAL AUDIO MATRIX

MIMO88, MPAGE16, WPTOUCH

MPAGE16

MPAGE16 is a digital paging station for the MIMO88. It features 21 touch-sensitive keys that, together with the MIMO88 hardware, allow for an easy, flexible and user-friendly configuration of a paging system that can coexist with other MIMO88 functions and with other control hardware and/or software control systems.
(for more information visit the MPAGE series product page)

Key features

- 16 zone selection keys
- SELECT ALL, CLEAR and PAGE keys
- Two user-defined functions keys (for recalling presets, for example)
- Gooseneck integrated microphone
- Several MPAGE16 or software (virtual) paging stations can work simultaneously (priorities and zones availability is managed by the MIMO88 software setup)

WPTOUCH

WPTOUCH digital wall panel control for zone source selection, preset recall, volume and MUTE control, etc. (see WPm series for more details about this and other available wall panel accessories)

WPTOUCH

MPAGE16

Technical Characteristics		MIMO88
DSP	DSP	2X 32/64 bit
	Sampling rate	48kHz
	Latency IN to OUT	<2.9ms (+1ms for 16 x 16)
Converters	Resolution	24 bit AKM
	Dynamic Range	AD:110dB, DA: 115dB
Analog	8+8 Input/Output	Terminal block (Symmetrical)
	2 monitor output	Terminal block (Symmetrical)
	Headphones related	Jack ¼
	Analog input headroom	+27dBV = +30dBu
	Max. output level	+18dBV = +21dBu
	Input sensitivity @ 0dBV out	From -50dBV to +10dBV in 0.5dB step
	Input impedance	Balanced, >4kΩ
	Phantom power	+42VCD, 5mA max. software switched
	Headphones	>200mW/200Ω
	Frequency response (-3dB)	5Hz to 24 kHz

		MIMO88
Analog	Flatness	Better than ±0.1dB
	THD+Noise @ 1kHz, 0BV input (line)	<0.004%
	THD+Noise @ 1kHz, -40dBV input (mic)	<0.008%
	Output Noise floor FFT (20Hz - 20kHz)	Better than 115dB
	Interchannel crosstalk (20Hz - 20kHz)	Better than 90dB (100dB typ.)
	Channel leakage (20Hz - 20kHz)	Better than 100dB (115dB typ.)
	CMRR 20Hz - 20kHz	65dB typ.
Mechanical	Dimensions	482.6x44x266.5 mm
	Weight	3.5 kg
Supply	Mains	90-264VCA 47-63Hz
	Power consumption	75VA

AMI2-70
AMI2-70TR

SELF-POWERED MIXERS

The self-powered mixer models AMI2-70 and AMI2-70TR (for 100/70V power lines) offer a simple single-unit solution that solves professional installs targeted at end user who are not necessarily audio experts.

Both models are equipped with integrated class D amplifiers that deliver an output of 70W RMS + 70W RMS.

Key features

- Mixers with 2 MIC/stereo LINE auto-amplified input channels
- (MIC/LINE) input signal detector located in the back panel
- Dedicated MIC input sensitivity adjustment
- Dedicated, fully adjustable channel 1 with TALKOVER
- Direct MIX input allowing connection of additional mixers
- Channel 2 is equipped with a stereo minijack connector for direct connection to audio sources such as the iPOD®
- Triple tone control (only accessible with a screwdriver)
- Amplified stereo output. Class D amplifier. 70W RMS + 70 W RMS at 4 ohms
- Bridge operation
- 3-LED output level indication. CLIP indicator
- 1 additional REC stereo output
- Mono selector
- General pre-fader MIC monitor (headphones)
- Remote volume control via VCA (EUROBLOCK)
- Remote MUTE

MPAGE1

Technical Characteristics		AMI2-70	AMI2-70TR
Inputs Sensitivity nom(*)Impedance	LINE	0dBV/47kΩ	
	MIC (BAL)	-35dBV/1kΩ	
	MIX	0dB/2kΩ	
Input sensitivity adjust CMRR	MIC ADJ	±15dB	
	MICRO (BAL)	>65dB@1kHz	
Outputs Level/Minimum load	REC	0dBV/10kΩ 1V*	
	HEADPHONES	0dBV/2.2kΩ 1V*	
Tone control	BASS	10Hz-30kHz -1dB	
	MID	10Hz+25kHz-1dB	
	TREBLE	RIAA±0.5dB	
Signal/Noise ratio	LINE	>100dB	
	MIC (BAL)	>85dB	
Talkover	TIME	2 (1, 3) Seg*	
	EFFECT	-30 (-20, -70)dB	
Phantom Voltage		+15VDC/4mA max.	

		AMI2-70	AMI2-70TR
Power 1kHz 1% THD	1 Channel @ 4Ω	70W	-
	1 Channel @ 8Ω	38W	-
	All Channels @ 4Ω	50W	-
	All Channels @ 8Ω	38W	-
	Bridget @ 8Ω	96W	-
	100V Line	-	>60W
	70V Line	-	>60W
Frequency response		15Hz-30kHz (-1dB)	45Hz-25kHz (-3dB)
THD+Noise @ 1kHz Full Pwr.		<0.07%	<0.1%
S+N/N 20Hz -20kHz @ 1W/4Ω		>92dB	>92dB
Damping factor 1kHz @ 8Ω		>140	-
Channel crosstalk @ 1kHz		>50dB	>50dB
Mains		90-264 VAC 47-63Hz	
Power consumption (max. Out)		230VA	
Dimensions		482.6 x 266.5 x 44mm	
Weight		3.5kg	6.5kg

[*] Internally selectable

Applications

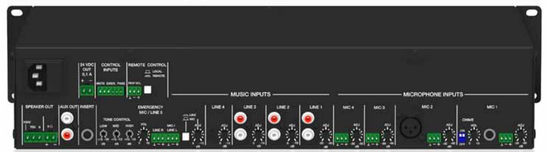
- Gyms
- Restaurants
- Leisure centres
- Shops
- Meeting rooms
- Educational centres
- A/V presentations

Accessories

- **MPAGE1,** desktop paging station (for more information visit the MPAGE series product page)
- **WPm series** wall panel controls

HMA180

PRELIMINARY



HMA180 is a self-powered installation Public Address mixer. It features a total of 9 audio inputs and a high / low impedance amplified output, together with an extensive set of control connections and features to be the perfect single-box solution in most projects involving background music, microphone signals, paging, pre-recorded messages and evacuation alarms.

Key features (PRELIMINARY)

- 4 MIC balanced inputs, with bus phantom power (selectable)
- 4 LINE inputs
- Independent 3 band EQ for the MIC inputs mix bus
- Independent 3 band EQ for the LINE inputs bus
- Pager & chime function, MIC1 input (voice level or contact closure activation)
- Additional EMERGENCY MIC/LINE input with independent features:
  - Selectable phantom power
  - 3 band EQ
  - Activation mode: VOICE / CONTACT
  - Independent output volume level (ignores the MASTER volume adjusted for the rest of the audio signals mix, assuring a pre-defined level for the emergency messages all over the installation)
  - Linkable to the included 24 VDC control output (to activate the priority relays in volume control wall panels)
- Remote Volume control port (0 – 10 VDC)
- Remote MUTE control port (to allow an external device MUTE the P.A. system completely)
- 24 VDC control output, linkable to the PAGER and/or EMERGENCY functions (to activate the priority relays in remote volume controls)
- Subsonic filter (@ 70 Hz)
- Insertion point in TRS format
- 8Ω , 70 V, 100 V powered output
- LINE level AUX output (allows for an external amplifier connection, like the HSA300 or HZA-F amps, in case that higher power is required)
- Class D 180 W amplifier, convection cooled (100% silent)
- Internal & universal Power Supply

Accessories

- **WPm** series wall panel controls
- **WPTOUCH** touch-sensitive digital wall panel control
- **MPAGE1** desktop paging station

Recommended loudspeaker selection

- IC in-ceiling series
- ICPLUS in-ceiling series
- ECL in-ceiling series
- AC acoustic column series
- AUDEO series
- AMBIT series

Applications

- BGM, Public Address & Paging solutions, with up to 9 audio inputs, message priorities and volume / EQ independent management

PKUB

pKUB is a desktop professional two-channel amplified mixer. It includes a powerful class D stereo amplifier and a universal switching power supply.
pKUB is a compact professional solution for sound installations where the end users do not necessarily have skills in the use of audio equipment. It is easy to start up and use, similar to home audio equipment. When running, it is totally silent, and its special format and look make it perfect for visible locations where classic professional equipment, designed for rack mount, would not be suitable.

Key features

- Two-channel mixer with two input channels, one MICRO/LINE and the other one just LINE
- Built-in 2 x 50 WRMS at 4Ω class D stereo amplifier
- Direct mini-jack line input on the front panel, AUX IN (channel 2), ideal for connecting an iPod®, MP3 player, multimedia player, etc. Channel 2 also has a duplicate stereo RCA connection on the back panel
- A-type USB Power plug connector for charging the batteries of your iPod®, MP3 player, multimedia player, etc.
- Includes a talkover assigned to input 1 with internal release and efficiency time switches
- Microphone sensitivity level can be adjusted using a trimmer on the back panel
- Phantom power (+18 V DC), internally switchable, for MIC input (channel 1)
- Level control for each input channel
- Independent three-band tone controls for each channel on the back panel, accessible with a screwdriver
- Rotary output level control and push-for-MUTE function
- Remote output volume and mute control with included infrared remote control
- Auxiliary line output for subwoofer reinforcement system or other audio equipment send
- MIX IN input, direct to the mixing bus to connect the unit with external equipment, such as another PKUB unit or a SAM mixer
- General remote MUTE control by external contact closure, which is ideal for connecting fire detection systems and/or other safety devices. Internally programmable "NO / NC" (normally open, normally closed)
- Output switch for MONO (SUB)/STEREO modes on the back panel

MPAGE1

Technical Characteristics		PKUB250
Inputs Sensitivity nom(*)Impedance	LINE 1	0dBV/47kΩ
	MIC (BAL)	-35dBV/600Ω
	LINE 2	0dB/4.7kΩ
	iPod®	-10dBV/300Ω
	MIX	0dBV/2kΩ
Input sensitivity adjust	MIC ADJ	±15dB
CMRR	MICRO (BAL)	>65dB @ 1kHz
Outputs Level / Minimum load	SUB AUX	0dBV/10kΩ
Tone control	BASS	100Hz±15dB
	MID	1.8kHz±15dB
	TREBLE	10kHz±15dB
Signal/Noise ratio	LINE	-80dB
	MIC (BAL)	-75dB
Talkover	TIME	2 (1, 3) Seg*
	EFFECT	-30dB
Phantom Voltage		+15VDC/4mA max.

		PKUB250
Power 1kHz 1% THD	1 Channel @ 4Ω	52W
	1 Channel @ 8Ω	31W
	2 Channels @ 4Ω	33W
	2 Channels @ 8Ω	27W
	Bridget @ 8Ω	68W
Frequency response		20Hz-25kHz (-1dB)
THD+Noise @ 1kHz Full Pwr.		<0.07%
S+N/N 20Hz -20kHz @ 1W/4Ω		>92dB
Damping factor 1kHz @ 8Ω		>140
Channel crosstalk @ 1kHz		>50dB
Mains		90-264 VAC 47-63Hz
Power consumption (max. Out)	(pink noise, 1/8 power @ 4Ω)	52VA
	(pink noise, 1/3 power @ 4Ω)	81VA
Dimensions WxDxH		132.5 x 155 x 142.5mm
Weight		1.5kg

(*) Internally selectable

Accessories

- **MPAGE1,** desktop paging station (for more informa tion visit the MPAGE series product page)

Applications

- Shopping centres
- Restaurants and bars
- Health, beauty and leisure centres
- Audiovisual presentations
- Meeting rooms
- Educational centers
- Corporate facilities
- Residential facilities

AMPACK2-70, AMPACK4-70, DLAPACK

With the AMPACK2-70 / 4-70 line of compact amplifiers, installers can enjoy the pro-audio market's lightest, most robust and most reliable amplification technology in a silent and compact format, ideal for use in virtually every kind of application and environment. The delivered power is 2 x 70 or 4 x 70 W RMS in low impedance (4Ω). For 100 V line applications, you will need the DLAPACK2-70 dual converter, which transforms two 70 W channels at 4Ω into two 70 W channels at 100 V line level.

Key features

- Class D amplifier with an output of 2 x 70 W RMS
- (AMPACK2-70) or 4 x 70 W RMS (AMPACK4-70) at 4Ω
- Ultra light format in the AMPACK2-70 (1.6 kg) and the AMPACK4-70 (1.75 kg)
- Silent, high-efficiency amplifier (ventilation by convection, no fan)
- Built-in power supply, switching type
- AUTO STANDBY: when no signal is detected, it automatically goes into standby mode, saving energy
- Can operate in stereo, parallel and bridge modes
- Independent remote VCA volume control (for each input channel). See WPm wall panel accessories: rotary wall controls and infrared remote control can be connected to the VCA port
- EUROBLOCK input, output and VCA remote control connectors
- Additional RCA stereo input connector (AMPACK2-70)
- L+R mono switch (only in AMPACK2-70)
- Independent gain adjustment for each input channel, protected against accidental manipulation
- Built-in 100 Hz high-pass filter
- Can be installed directly on a 35 mm DIN rail

Technical Characteristics		AMPACK2-70	AMPACK4-70	DLAPACK2-70
POWER 20-20kHz 1%THD				
	1 Channel Ø 4Ω	68 WRMS	68 WRMS	
	1 Channel Ø 8Ω	35 WRMS	35 WRMS	
	2-4 Channels Ø 4Ω	64 WRMS	57 WRMS	
	2-4 Channels Ø 8Ω	35 WRMS	34 WRMS	
	1-2 Bridged Ø 8Ω	135 WRMS	130 WRMS	
Power rating				80W RMS MAX
Frequency response (-3dB)		10Hz - 40kHz	10Hz - 40kHz	45Hz÷25kHz
High pass filter 3rd order Butterworth		100Hz	100Hz	
THD+Noise @ 1kHz Full Pwr.		<0.08%	<0.1%	
Intermodulation distortion 50Hz & 7kHz, 4:1		<0.1%	<0.3%	
TIM 100		<0.06%	<0.15%	
S+N/N 20Hz-20kHz @ 1W/4Ω		>80dB	>80dB	
Damping factor 1kHz @ 8Ω		>140	>140	
Channel crosstalk @ 1kHz		>50dB	>50dB	
Input sensitivity /Impedance		0dBV/>20kΩ	0dBV/>20kΩ	

	AMPACK2-70	AMPACK4-70	DLAPACK2-70
Auto power threshold	>-35dB aprox.	>-35dB aprox.	
Auto power time	2 min. aprox.	2 min. aprox.	
Mains Voltage	230V AC	230V AC	
Output voltages			70/100V
Power consumption			
(pink noise, 1/8 power @ 4Ω)	96VA	135VA	
(pink noise, 1/3 power @ 4Ω)	170VA	250VA	
Power dissipation (standby)	<9W	<9W	
Dimensions	234x158.5x75mm	234x158.5x75mm	230x151.5x75mm
Weight	1.6kg	1.75kg	3.9kg

Accessories

- **WPm series** wall panel controls

Applications

- A/V corporate rooms
- Retail shops
- Residential applications

The HSA300 is a single channel amplifier with direct 100 V line (high impedance) output. It's equipped with Ecler's proprietary SPM 100 Technology - Channel N, which allows for 100 V speaker lines connection without using 100 V line transformers, as this kind of amplifiers usually do. This fact has many advantages, being the main one the excellent audio quality, specially improved in the low-end frequencies when compared to classical 100V line amplifiers.

Key features

- 1 mono balanced input
- 1 x 260 W output (100V line level)
- Euroblock connectors
- SPM 100 amplification Technology - Channel N
  (no 100 V output transformers used):
  - -Improved frequency response (specially at the low-end)
  - - Great efficiency
  - -Low weight
- Butterworth, 3rd order high pass filter @ 70Hz
- Thermal protection
- Overload protection
- Anti-clip system

Applications

- Single or multi-zone BGM and paging systems with 100V line speakers, combined with the MIMO54 and MIMO88 matrixes and SAM series preamplifiers

Suggested 100V line Speakers:

- **AUDEO** series
- **IC / IW / ICPLUS** series
- **AMBIT** series
- **ECL106** series

Technical Characteristics	HSA 300
Power output @ 100VRMS	254 WRMS@32Ω@1% THD
	302 WRMS@32Ω@10% THD
Full power	482VA
Frequency response (-3dB)	30Hz - 35kHz
High pass filter 3rd order Butterworth	70hz
THD + Noise @ 1kHz Full power	<0.07%
Signal Noise Ratio @ 100V	>85dB
Inputs:	
Sensitivity nom/impedance	0dBV/>20kΩ
Connector	Terminal block (symmetrical)
Outputs:	
Connector	Terminal block
Indicators:	
Power	
Signal present	
Clip	-35dB
Overload	
Thermal	

	HSA 300
Mains voltage	Depending on your country. See characteristics in the back of the unit
Power consumption	
pink noise, 1/8 power @ 32Ω	218VA
pink noise, 1/3 power @ 32Ω	319VA
Dimensions	
Panel	482.6x88mm
Depth (handle excluded)	285mm
Weight	8.4kg

FLEXI-POWER AMPLIFIER SERIES

HZA4-70F, HZA4-120F

The HZA4-70F and HZA4-120F are four MERGING channel amplifiers with direct 100 V line (high impedance) outputs. They integrate Ecler's proprietary SPM 100 Technology - Channel N, which allows for 100 V speaker lines connection without using 100 V line transformers at their amplified outputs, as this kind of amplifiers usually do. This fact has many advantages, being the main ones the audio quality improvement (specially in the low-end frequencies) and the convection cooling, 100% silent.

Key features

- 4 mono balanced inputs
- 4 x 70 W or 4 x 120 W amplified outputs (100V line level)
- 4 volume remote control ports (0 - 10 VDC)
- Euroblock connectors
- SPM 100 amplification Technology - Channel N (no 100 V output transformers used):
  - Improved frequency response (specially at the low-end)
  - Convection cooling (100% silent and increased reliability)
  - Great efficiency
  - Low weight
- Auto stand-by function after 2 minutes without audio input signals, with instantaneous auto-recovery
- Thermal protection
- Overload protection
- Anti-clip system

- Every 2 adjacent channels can be merged, getting one out of these possible configurations in the case of the HZA4-70F:
  - 4 x 70W @ 100 V line outputs
  - 2 x 70W + 1 x 140 W @ 100 V line outputs
  - 2 x 140W @ 100 V line outputs
  - 1 x 70W + 1 x 210 W @ 100 V line outputs
  - 1 x 280W @ 100 V line output
- And these ones in the case of the HZA4-120F:
  - 4 x 120W @ 100 V line outputs
  - 2 x 120W + 1 x 240 W @ 100 V line outputs
  - 2 x 240W @ 100 V line outputs
  - 1 x 120W + 1 x 360 W @ 100 V line outputs
  - 1 x 480W @ 100 V line output

Applications

- Multi-zone BGM and paging systems with 100V line speakers, combined with the MIMO54 and MIMO88 matrixes and SAM series preamplifiers

Technical Characteristics

		HZA4-120F		HZA4-70F
		1%THD	10% THD	
Output power:	1 Channel	114WRMS@88Ω	145WRMS@88Ω	TBA
	2 Merged Channels	195WRMS@50Ω	226WRMS@50Ω	TBA
	3 Merged Channels	290WRMS@32Ω	348WRMS@32Ω	TBA
	4 Merged Channels	356WRMS@26Ω	430WRMS@26Ω	TBA
Frequency response (-3dB)		30Hz - 55kHz		
High Pass filter 3rd order Butterworth		70Hz		
THD + Noise @ 1 kHz Full power		<0.03%typ. 0.2% max.		
Signal Noise Ratio @ 100V		>90dB		
Channel Crosstalk @ 1kHz/100V		>90dB		
Inputs:	Sensitivity nom/Impedance	0dBV/-20kΩ		
	Connectors	Terminal Block (Symmetrical)		
Outputs:	Connectors	Terminal Block		
Indicators:	Power	Green (ON), Red (Standby)		
	Signal present	-35dB		
	Clip			
	Overload			
	Thermal			
	Merge			

		HZA4-120F	HZA4-70F
Remote control:	DC	0-10V/0.1A max	
	No attenuation	0V	
	Full attenuation	+10V	
	Connectors	Terminal block	
Auto Power:	Threshold	>-30dB aprox	
	Time	100 sec. aprox	
Mains Voltage:	Depending on your country	Depending on your country. See	
	See characteristics in the back of the unit	characteristics in the back of the unit	
Power consumption:	pink noise, 1/8 power @ 13Ω	340VA	TBA
	pink noise 1/3 power @ 13Ω	470VA	TBA
	Standby	<3W	TBA
Dimensions:	Panel	482.6x88mm	
	Depth (Handle excluded)	392mm	
Weight:		13.60kg	TBA

Suggested 100V line speakers:

- AUDEO series
- IC / IW / ICPLUS series
- AMBIT SERIES
- ECL106 series
- ICPLUS series (100V version)

Suggested remote control accessories:

- WPm series wall panels

AMPLIFIERS

MPA4-80R, MPA6-80R, MPA4-150R, MPA4-400R

Line of multi-zone power amplifiers for high end installations

Key features

- 2 RU high, 19" installation multi-channel amplifier series
- Extended linear power supply
- ECLER SPM patented technology (MPA4-150R, MPA6-150R, MPA4-400R)
- Individual input sensitivity controls with sealing possibility to avoid unwanted manipulation
- Signal presence (SP) and CLIP indicators for each channel
- Balanced inputs (XLR) , EUROBLOCK output connectors
- Stack outputs (JACK) on all models
- Input channels link switch for superior versatility
- Independent VCA (EUROBLOCK) volume remote control port for each input channel, ready for external 0-10 V signals, WPmVOL or WPmVOL-IR wall panel controls
- Noiseless convection cooling (MPA4-80R and MPA6-80R)
- Dual Slope Controlled Fan system (MPA4-150R, MPA6-150R and MPA4-400R)
- Totally protected against shorting, DC at the outputs and overheating
- Integrated internal 3rd order Butterworth HI-pass and LO-pass x-over (MPA4-150R, MPA6-150R, MPA4-400R) for bi-amped applications
- 2 RU high
- Three year warranty

WPmVOL

Accessories

- **DLA600**: dual channel 100V adaptor for MPA4-150R, MPA6-150R and MPA4-400R
- **DLA4-80, DLA6-80**: 4/6 channel 100V adaptor for MPA4-80R and MPA6-80R
- **WPm series** wall panel controls

Applications

The reliable multi-channel solution for all applications requiring multi-zone audio distribution

- Public Address
- Theme parks
- Clubs
- Theme restaurants
- Multi-purpose halls
- Boardrooms and conference halls
- Franchise retail shops

MPA-R SERIES

**MPA4-80R, MPA6-80R,
MPA4-150R, MPA6-150R, MPA4-400R**

MPA-R 6-80 conex

MPA-R power fast guide

		MPA4-80R	MPA6-80R	MPA4-150R	MPA6-150R	MPA4-400R
POWER 20-20kHz 1% THD	1 channel Ø4Ω	80WRMS	85WRMS	160WRMS	170WRMS	410 WRMS
	1 channel Ø8Ω	50WRMS	52WRMS	100WRMS	110 WRMS	230 WRMS
	1 Bridged channel Ø8Ω (all channels driven)	117WRMS	123WRMS	300WRMS	330 WRMS	610 WRMS

Technical Characteristics

		MPA4-80R	MPA6-80R	MPA4-150R	MPA6-150R	MPA4-400R
POWER 20Hz-20kHz 1%THD	1 Channel @ 4Ω WRMS	80 WRMS	85 WRMS	160 WRMS	170 WRMS	410 WRMS
	1 Channel @ 8Ω WRMS	50 WRMS	52 WRMS	100 WRMS	110 WRMS	230 WRMS
	All Channels @ 4Ω WRMS	55 WRMS	58 WRMS	120 WRMS	130 WRMS	305 WRMS
	All Channels @ 8Ω WRMS	40 WRMS	48 WRMS	83 WRMS	90 WMRS	200 WRMS
	1 Bridged Channel @ 8Ω	117 WRMS	123 WRMS	300 WRMS	330 WRMS	610 WRMS
	All Bridged Channels @ 8Ω			250 WRMS	270 WRMS	
Frequency response (-1dB)		20Hz - 30Hz		7Hz - 30kHz		7Hz - 50kHz
Filter (Hi-lo) 3rd order Butterworth		-	-	160Hz		
THD+Noise*@1kHz Full Pwr.		<0.02%		<0.05%		
Intermodulation distortion* 50Hz & 7kHz, 4:1		<0.02%		<0.06%		<0.08%
TIM 100 *		<0.05%		<0.04%	<0.06%	<0.03%
S+N/N 20Hz-20kHz*@1W/4Ω		>90dB				>85dB
CMRR*		-	-	>55dB		-

	MPA4-80R	MPA6-80R	MPA4-150R	MPA6-150R	MPA4-400R
Damping factor 1kHz @ 8Ω	>160				>300
Slew Rate	±10V/µs		±18V/µs		±50V/µs
Channel crosstalk @ 1kHz*	<60dB		>55dB		305 WRMS
Input Sensitivity / Impedance	0dBV/-20kΩ				
Anticlip	-		2% THD		1 & 5% THD
Power consumption (max. Out)	524VA	800VA	1095VA	1590VA	2500VA
Dimensions (mm)	482.6x88x391			482.6x88x426	
Weight	9,5kg.	11.2kg.	12.6kg.	15,25kg.	20.5kg.

* VCA OFF

LPA SERIES

**LPA6000, LPA10000,
LPA16000**

The new LPA series brings all the classic, well-known reliability and amplification quality of Ecler to a new light-weight format that is versatile and affordable.

When activated, the built-in crossover allows you to send the low frequency band to channel 1 and the high frequency band to channel 2 (cut-off point at 150 Hz) internally, making it simple and cost effective to create two-channel configurations without any external processing.

Key features

- Ultra light technology (5.6, 6.8 and 9.2 kg: LPA6000, 10000 and 16000)
- Built-in crossover filter
- Efficient progressive ventilation system with a flow that adapts to the internal temperature of the amplifier. The air comes in from the back and is pushed out to the front
- Rotary input attenuation controls that are easily accessible on the front panel
- LED indicators: power-on and standby (POWER ON, STD BY), signal presence (SIGNAL), clipping (CLIP), operating mode (STEREO, BRIDGE), crossover activated (XOVER) and protections activated (PROTECT)
- Efficient short-circuit, overheat and DC signal protection system to prevent damage to the amplifier and/or the loudspeakers connected to it
- Permanently activated built-in anti-clip circuit
- Operating mode selector: STEREO, PARALLEL and BRIDGE
- Balanced inputs via XLR3 connectors and 6.35 mm stereo jack. Unbalanced inputs via RCA connectors.
- Amplified outputs with terminal-type connectors and Speakon® connectors

LPA power fast guide

		LPA6000	LPA10000	LPA16000
POWER 20-20kHz 1% THD (Both channels driven)	4Ω Stereo	320WRMS	500WRMS	760 WRMS
	8Ω Stereo	210WRMS	330 WRMS	450 WRMS
	8Ω Bridged	640WRMS	1000 WRMS	1520 WRMS

Technical Characteristics

		LPA6000	LPA10000	LPA16000
POWER 20-20kHz 1% THD	4Ω Stereo	320WRMS	500WRMS	760 WRMS
	8Ω Stereo	210WRMS	330 WRMS	450 WRMS
	8Ω Bridged	640WRMS	1000 WRMS	1520 WRMS
Frequency response (-1dB/-3dB)		10Hz/58kHz	10Hz/58kHz	10Hz/52kHZ
Crossover filter (-3dB) (CH1=LOW, CH2=HIGH)		150Hz/18dB oct.		
THD+Noise @ 1kHz Full Pwr.		<0.1%	<0.05%	<0.1%
S+N/N 20Hz-20kHz @ 1W/4Ω		>85dB		
Damping Factor 1kHz @ 8Ω		>270		
Slew Rate		±37V/µs	±43V/µs	±30V/µs
Input connectors		XLR3 & 1/4¨ Jack balanced & RCA		
Input Sensitivity / Impedance		26/32dB/20kΩ Bal. 10kΩ Unbal		
Signal present indicator		-40dB		
Output connectors		Speakon & Binding Posts		
Mains		230V 50/60Hz		
Power consumption (pink noise, 1/8 power @ 4ohm)		670VA	1040VA	600VA
		1000VA	1580VA	1840VA
Dimensions (mm)		482.6x304x88	482.6x360x88	482.6x360x88
Weight		5.62kg	6.85kg	9.2kg

Applications

- Touring (small live)
- Mobile applications
- Permanent installation

AMPLIFIERS

XPA3000, XPA5000, XPA7000, XPA11000

A line of amplifiers with unbeatable sturdiness, ideal for fix installation and at an affordable price

Key Features

- Class G and H - 3 steps (XPA11000) amplifying technology
- Extended power supply
- Work modes: stereo (down to 2Ω loads) , parallel, bridged
- Balanced inputs (XLR), balanced stack outputs (JACK)
- Outputs on connection posts and Speakon® connectors
- Intelligent ANTICLIP system: always on. Limits Harmonic Distortion by monitoring the transient behaviour of the input signal
- SIGNAL PRESENT front panel indicator (-40dBV)
- CLIP indicator
- PROTECT indicator when DC, low freq signals, short circuit or overheating situations
- On board 30Hz or off SUBSONIC filter
- Input sensitivity selector (0.775V, 1V, 1.4V)
- Smart back to front COOLING system
- Tamper proof plastic caps
- 2 RU High
- 2 year warranty

XPA-power fast guide		XPA3000	XPA5000	XPA7000	XPA11000
POWER 20-20kHz 1% THD [Both channels driven]	4Ω Stereo	295WRMS	498WRMS	718WRMS	1180WRMS
	8Ω Stereo	198WRMS	314WRMS	450WRMS	745 WRMS
	8Ω Bridget	590WRMS	996WRMS	1436WRMS	2360 WRMS

Technical Characteristics		XPA3000	XPA5000	XPA7000	XPA11000
POWER 20Hz-20kHz 1%THD	4Ω Stereo	295 WRMS	498 WRMS	718 WRMS	1180 WRMS
	8Ω Stereo	198 WRMS	314 WRMS	450 WRMS	745 WRMS
Both Channels driven	8Ω Bridged	590 WRMS	996WRMS	1436 WRMS	2360 WRMS
Peak power 2Ω		600 WRMS	1050 WRMS	1450 WRMS	2400 WRMS
Frequency response (-1dB/-3dB)		10Hz/120kHz			10Hz/60kHz
High pass filter (-3dB)		30Hz/18dB oct.			
THD+Noise @ 1kHz Full Pwr.		‹0.05%	‹0.05%	‹0.1%	‹0.1%
S+N/N 20Hz-20kHz @ 1W/4Ω		›90dB			
Damping factor 1kHz @ 8Ω		›300			
Slew Rate		±32V/µs	±40V/µs	±45V/µs	±30V/µs
Input connectors		XLR3 & 1/4" Jack balanced			
Input Sensitivity / Impedance		0.775V. 1V. 1.4V/20KΩ Bal. 10KΩ Unbal.			

	XPA3000	XPA5000	XPA7000	XPA11000
Signal present indicator	-40dB			
Output connectors	Speakon & Binding Posts			
Power consumption (EN 55103-1)	575VA	675VA	775VA	1230VA
Pink noise, 1/8 power				
Pink noise 1/3 power				
Max. power (sinus)				
Dimensions	482.6x88x452mm.			
Weight	15kg	17kg	19.5kg	23.6kg

Applications

- Clubs
- Theme restaurants
- Discos
- Leisure centres
- Cinemas and theatre
- Educational centres
- Boardrooms and conference halls
- Sports Centres
- Mobile outdoor applications

Accessories

- **DLA600** dual 100V adaptor for XPA3000

AMPLIFIERS

DPA600, DPA1000,DPA1400, DPA2000, DPA 4000T

Line of stereo power amplifiers including SPM proprietary technology and optional in-bay AMIC DSP module, very suitable for the high end installation

Key features

- ECLER patented SPM amplifying technology
- All the power all the time: permanent sound quality, no matter how long the unit is working (DPA4000T)
- Drive down to 2Ω loads
- A2SP Analog Autogain Signal Processor: input signal management in stress work conditions (DPA4000T)
- Balanced inputs (XLR), balanced stack outputs (JACK , except the 4000T, XLR), Speakon® output connectors
- Intelligent ANTICLIP system: always on. Limits Harmonic Distortion by monitoring the transient
- behaviour of the input signal
- Independent channel THERMAL protection with the front panel indicator
- PROTECT indicator when DC, when detected DC / LF input signals, or short-circuit loads
- SIGNAL PRESENT front panel indicator (-40dBV)
- CLIP indicator active for output signals 1.5dB below real clipping
- On-board 25 Hz switchable SUBSONIC filter
- Crowbar (relay-free) DC protection circuit
- Smart back-to-front cooling system
- AMIC DSP card compatible
- Tamper-proof front knobs plastic caps
- 2 RU high (3 RU for the DPA4000T)
- Three year warranty

DPA and DPA-T Accessories

- **AMIC DSP** card for extensive and comprehensive signal processing. PC remote controlled by AMICLAB friendly setup software. Turns DPA and DPA-T amplifier into a complete audio solution
- **DLA600** dual 100V adaptor for DPA600

DPA and DPA-T SERIES Applications

- Clubs
- Theme restaurants
- Discos
- Leisure centres
- Cinemas and theatre
- Educational centres
- Boardrooms and conference centres
- Sports Centres
- Mobile outdoor applications

Technical Characteristics		DPA600	DPA1000	DPA1400	DPA2000	DPA4000T
POWER	**2Ω Stereo**	410 WRMS	682 WRMS	990 WRMS	1420 WRMS	2800 WRMS
20Hz-20kHz	**4Ω Stereo**	275 WRMS	440 WRMS	635 WRMS	940 WRMS	1880 WRMS
1% THD	**8Ω Stereo**	180 WRMS	275 WRMS	395 WRMS	550 WRMS	1110 WRMS
(Both channels driven)	**8Ω Bridged**	550 WRMS	882 WRMS	1270 WRMS	1880 WRMS	3760 WRMS
Peak Power 2Ω/1kHz		0.98Kw	1.5Kw	2Kw	2.95 Kw	6100 WRMS
Frequency response (-1dB)		7hz-50kHz	7Hz-50kHz	7Hz-50kHz	6Hz-50kHz	6Hz-95kHz
High pass filter (-3dB)		25Hz/Butt/18dB/oct.				
THD + Noise @ 1kHz Full Power		‹0.03%	‹0.03%	‹0.03%	‹0.07%	‹0.07%
Imd. dist. 50Hz & 7kHz 4:1		‹0.05%	‹0.08%	‹0.08%	‹0.08%	‹0.08%
TIM 10Ω		‹0.01%	‹0.01%	‹0.01%	‹0.01%	‹0.04%
S+N/N 20Hz-20kHz@ 1Ω/4Ω		›85dB	›85dB	›85dB	›85dB	›84dB
Damping factor 1kHz@8Ω		›300	›300	›300	›300	›370
Slew Rate		±60V/µs	±65V/µs	±75V/µs	±80V/µs	±135V/µs
Channel Crosstalk @ 1kHz		›75dB	›75dB	›75dB	›75dB	›74dB

	DPA600	DPA1000	DPA1400	DPA2000	DPA4000T
Input Connectors	XLR3 Balanced				
Input CMRR/ref. Max. PWR	›60dB@1kHz				›70dB@1kHz
Input sensitivity/impedance	0dBV / ›20kΩ				
Signal present indicator	-40dB				
Output connectors	Speakon®				
Clip indicators	-1.5dB real clip				
Anticlip limiter	Intelligent A2SP				
Mains	Depending on your country				
Power consumption (max. Out)	830VA	1250VA	1720VA	3115VA	6760VA
Dimensions Panel	482.6 x 88mm			482.6x88mm	482.6x132.5mm
Depth	420mm			470mm	532mm
Weight	12.7kg	16.6kg	19.3kg	22.7kg	34.1kg

NPA SERIES

NPA4000T

Range of amplifiers with built-in DSP processing and remote Ethernet management.
A complete digital signal processing module and a remote Ethernet management module are built into the NPA series amplifiers, allowing them to be controlled and supervised from any PC on the network where they are installed, or even from a remote location via the Internet.

The EclerNet manager application is the control tool for this amplifier series. With this software application, users can configure each amplifier's built-in DSP processor (gain, crossovers, parametric EQ with 10 filters, delay, compressor/limiter, etc.) as well as control and supervise the status of individual amplifiers, amplifier groups, individual amplifier channels and amplifier channel groups.

Key features

- SPM TECHNOLOGY (Switching Power Mosfet)
- Analogue and digital inputs (AES/EBU)
- LCD screen and local controls on front panel
- Built-in DSP module
- Built-in EclerNet remote control module (including control over all DSP functions + supervision and control over alarms, protections, temperature, load impedance, output power, AC power supply, amplifier groups and/or channels, output power limiter, system log, etc.)
- Cooled with variable-speed fan that adjusts to the internal temperature
- Built-in anti-clip system
- Soft start
- Built-in RJ45 (Ethernet) remote control ports and TP-NET third-party protocol, ready for the integration with control systems like CRESTRON®, AMX®, RTI®, etc.
- Speakon® outputs
- Height: 3 rack units

Technical Characteristics

		NPA4000T
POWER 20-20kHz 1% THD	4Ω Stereo	2840WRMS
	8Ω Stereo	1910 WRMS
	8Ω Stereo	1120 WRMS
	8Ω Bridged	3800WRMS
Peak Power 2Ω/1kHz		6200WRMS
Overall Voltage Gain		26/32/38 dB
Frequency response (-1dB/-3dB)		6Hz/37kHz
THD+Noise @ 1kHz Full Pwr.		‹0.04%
S+N/N 20Hz-20kHz @ 1W/4Ω		›84dB
Channel Crosstalk @ 1kHz		›350
Slew Rate		›80dB
Input connectors		XLR3 balanced
Input CMRR/ref. Max. PWR		›60dB@1kHz
Signal present indicator		-40dB

	NPA4000T
Output connectors	Speakon®
Anticlip limiter	3 level DSP controlled
Mains	Depending on your country. See charact. in the back of the unit
Power consumption	
(pink noise, 1/8 power @ 4ohm)	2500VA
(pink noise, 1/3 power @ 4ohm)	3800VA
Dimensions Panel	482.6x132.5mm
Depth	532mm
Weight	35.8kg

Applications

- Live sound (possibility of in-place WiFi management from a laptop)
- Fixed installation
- Integration in global facility control systems
- Large PA systems and zones with high number of speakers (high power direct over a 100 V line without additional transformers)
- Facilities requiring supervision, diagnostics and adjustments from remote locations (via LAN or Internet)

NZA SERIES

NZA4-70, NZA4-180, NZA4-400, NZA6-70, NZA6-180, NZA4-700

The new NZA multi-channel amplifier series responds to the present demands regarding remote management and systems integration. Thanks to its DSP module and its integrated Ethernet interface, these amplifiers turn into a powerful tool for signal processing, amplification and remote management, allowing the user to create centralized, distributed or hybrid systems, offering more flexible sound system options to the installer or designer and reducing dramatically the cabling installation costs.

The NZA range includes 6 models, of 4 or 6 channels and different powers. All of them feature convection cooling (fan less), being absolutely silent and suitable for its installation in the most demanding environments in terms of background noise.

As well as the NPA series, the NZA series can integrate in the increasing range of products compatible with the EclerNet network, being the EclerNet Manager software application its programming and remote control tool.

Additionally, the TP-NET third party communication protocol, which is integrated in the NPA, NZA and MIM088 devices, enables our NZA multichannel amplifiers to be remotely controlled via Ethernet by third-party control systems (CRESTRON®, AMX®, RTI®, VITY®, MEDIALON®, etc.).

Applications

- Live sound (WiFi management is possible from a PC)
- Centralized, distributed or hybrid fixed installation
- Integration in installation global control systems
- Big zoned systems of Public Address
- Installations requiring remote supervision, diagnostic and adjustment via Internet

NZA series models

- **NZA4-70**: 4 x 80 W RMS @ 4Ω
- **NZA4-180**: 4 x 190 W RMS @ 4Ω
- **NZA4-400**: 4 x 420 W RMS @ 4Ω
- **NZA4-700**: 4 x 730 W RMS @ 4Ω (4 x 1200 W RMS @ 2Ω)
- **NZA6-70**: 6 x 80 W RMS @ 4Ω
- **NZA6-180**: 6 x 200 W RMS @ 4Ω

Technical Characteristics

POWER AUDIO	NZA4-70	NZA6-70	NZA4-180	NZA6-180	NZA4-400	NZA4-700
POWER 20Hz-20kHz 1%THD						
1 Channel @ 2Ω						1220 WRMS
1 Channel @ 4Ω	81 WRMS	80 WRMS	193 WRMS	208 WRMS	426 WRMS	730 WRMS
1 Channel @ 8Ω	49 WRMS	47 WRMS	115 WRMS	120 WRMS	230 WRMS	406 WRMS
All Channels @ 4Ω	63 WRMS	62 WRMS	160 WRMS	155 WRMS	330 WRMS	530 WRMS
All Channels @ 8Ω	41 WRMS	40 WRMS	102 WRMS	100 WRMS	205 WRMS	327 WRMS
1 Bridge Channel @ 8Ω	152 WRMS	150 WRMS	365 WRMS	380 WRMS	760 WRMS	1180 WRMS
1 Bridge Channel @ 4Ω						2070 WRMS
Overall Voltage Gain	+26 / +32 dB					
Frequency response (-1dB/-3dB)	10Hz - 25kHz					
THD+Noise @ 1kHz Full Pwr.	‹0.05%		‹0.08%			
Output connectors	Terminal block					
Noise Floor (FFT) 20Hz - 20 kHz	›80dB (85dB typ.)					
Damping factor 1kHz @ 8Ω	›150	›140	›400	›350	›600	›200
Channel Crosstalk @ 1 kHz	›60dB					
Input connectors	Terminal block (Symmetrical)					

POWER AUDIO	NZA4-70	NZA6-70	NZA4-180	NZA6-180	NZA4-400	NZA4-700
Input CMRR/ref. Max. PWR.	›55dB					
Signal present indicator	Lit at -40dBV					
Anticlip limiter	Soft / Mid / Hard					
Volume remote control	(0-10VDC) (0.1A max.) 0V = no attenuation / +10V = full attenuation					
Remote control connectors	Terminal block					
Mains	Depending on your country. See characteristics in the back of the unit					
Power consumption: (pink noise, 1/8 power @ 4ohm)	102VA	137VA	214VA	297VA	431VA	729VA
(pink noise, 1/3 power @ 4ohm)	198VA	277VA	466VA	652VA	948VA	1610VA
Stand-by mains consumption	‹3W					
Panel Dimensions	482.6x88mm					
Depth (Handle excluded)	390mm				440mm	
Weight	8.6kg	9.65kg	11.1kg	12.9kg	15kg	19kg

NZA4-70, NZA4-180, NZA4-400, NZA6-70, NZA6-180, NZA4-700

- **EclerNet software**

NZA 6-180 conex

Key features

- 4/6 analogue inputs routable to any output
- 4/6 volume remote control ports, each one assignable to one or various channels
- Editable channels independently (SINGLE mode) or in pairs (BRIDGE and PARALLEL modes)
- Integrated DSP module
- Integrated EclerNet remote control module (includes control of all DSP functions and supervision and control of alarms, groups of amplifiers and/or channels, output voltage limiter, system log file, etc.)
- Silent cooling through convection, without fan
- Integrated anti-clip system
- Soft start in 180, 400 and 700 W models
- RJ45 (Ethernet) remote control port
- Auto-Stand By function
- Euroblock type input, output and volume remote control connections
- 2 units rack height

Technical Characteristics

DIGITAL		
Processing:	A/D & D/A	24 bit, 48kHz, 105dB Cirrus Codec
	DSP	32/64 bits
	Latency	810^s
Analog Input headroom:		+18 dBV = +21 dBu
Digital Input Attenuator:		Stepless from - to +0dB
Input Impedance		Balanced, 22kΩ
Maximum Delay:		1s (343.4m) for each channel
Delay resolution:		20.8µs (6mm)
Compressor / Limiter:	Threshold	from -36dBV to +18dBV
	Ratio	1:1 to :1 (limiter)
	Attack time	Auto or from 0.1ms to 500ms.
	Release time	Auto or from 1ms to 5s.
Output peak voltage limiter:	Peak voltage upon model (auto settings)	From 10Vpk to 70Vpk
High & Low pass Crossover filters		Butterworth in 6/12/18/24/oct.
		Bessel in 12/18/24dB/oct.
		Linkwitz-Riley in 12/24dB/oct.

DIGITAL		
Parametric Eq types: (8 max. per output)		- Bypass / On-Off all channels
		- Param. Eq. 20Hz-20kHz; -60/+12dB; Q from -3 to 200
		- Low & High Shelf 6/12 dB/oct
		- Low & High Pass 6/12 dB/oct.
		- All-Pass 1/2 order
Built in signal generator		- Sine (20Hz to 20 kHz)
		- Polarity (10/20Hz to 10/20kHz)
		- White
		- Pink
Signal Mute		- Yes
Signal Polarity Invert		- Yes
Connectivity:		-Ethernet base-Tx 10/100Mb, Auto X-Over, Cat5

SOFTWARE	
EclerNet Software	Realtime full GUI of all functions and controls thru Ethernet with interactive graphical display Grouping mode channels or devices Automated report generation Remote power on with programmable delay Up to 256 devices on same net Autodiscovery devices feature Routing capability through NAT gateways Real time metering at input/output (DSP) Device "Finder" feature Save & Recall setup and preset functions Firmware update capability thru Ethernet Password protection Default Network configuration IP: 192.168.0.100 Mask: 255.255.255.0 Gate: 192.168.0.1 UDP Port: 2210
Operating System:	Windows® W2000 Prof. (SP4); XP Prof. (SP3);Vista (SP1 Windows 7
Minimum EclerNet	Pentium IV @ 1GHz
System Require-ments	256MB RAM
	40MB HDD free space
	800x600 pixels & 16bits colour display
	10/100 Ethernet Network Card

2x4 internal DSP management card for DPA and DPA-T amplifier series. Fully configurable with AMICLAB PC control software.

Key features

- 24bits / 48kHz sampling rate for superior audio quality
- Powerful 48bits DSP architecture allows real time configurations
- Four full independent channels management for extra versatility
- Input selection and gain controls, MUTE and PHASE invert
- Crossover section with 9 different high and low pass filter options. Up to 24dB/oct
- Cross over edge link possibility
- Equalisation section with 11 different filter types. Up to 10 equalisation points running per output channel
- Limiter and compressor section with automatic mode possibility. Compression status indicator
- Independent remote input VCA control
- Independent delay per output adjustable to installers preferred units (m, cm, s, ms)
- Built in signal generator allows white and pink noise, sine tone and polarity check as an extra versatility tool
- USB controlled by AMICLAB included software
- Graphic user interface (GUI) allows all parameters to be edited by a single drag and drop mouse operation
- Password controlled for unwanted set up manipulation
- Full VU-METER control at inputs and outputs
- Grouping channels feature simplifies set up when stereo configurations are required
- Upgradeable DSP firmware
- Full file management
- Can be easily installed in any DPA and DPA-T stereo power amplifier

Tech. Characteristics	AMIC-lab
AMICLAB Software	-Realtime full GUI of all functions -Interactive graphical display -Real time metering at input / output -Save & Recall setup functions -Firmware update capability -Password protection
Operating System	Windows 98SE; WMe; W2000 Prof. (SP4); XP Home (SP1); XP Prof. (SP1)
Minimum AMICLab System Requirements	Pentium III 600MHz 128MB RAM 20MB HDD free space 800x600 dpi & 16bits color display

Technical Characteristics

		AMIC
Processing	A/D & D/A	24 bit. 48kHz
	DSP	48 bits
	Latency	0.585ms
Input / Output		2 Inputs / 4 outputs (2 internal & 2 external)
Input Levels	Nominal	0dBV
	Maximum	+12dBV
Input Attenuator		Stepless from -84dB to + 12dB
Input Impedance balanced		30KΩ
Stack Output impedance		300Ω
CMRR (20Hz - 20kHz)		>60dB
Distortion @ 0dbV 20Hz-20kHz		<0.008%
Frequency Response (-0.3dB)		10Hz - 20kHz
Noise from 20Hz to 20kHz		below -105dB
Crosstalk (20Hz-20kHz)		better than -60dB CH1 to CH2 & Stack 1 to Stack2
Maximum Delay		910ms (312.5m) global for all 4ch
Delay resolution		20.83us (7mm)
Compressor / Limiter	Threshold	from -48dBV to +12dBV
	Ratio	1:1 to inf:1 (limiter)
	Attack time	Auto or from 0.1ms to 150ms
	Release time	Auto or from 1ms to 5s.

	AMIC
High & Low pass Crossover filters	Butterworth in 6 / 12 / 18 / 24dB / oct
	Bessel in 12 / 18 / 24dB / oct
	Linkwitz-Riley in 12 / 24dB / oct
Parametric Eq. types (10 max. per output)	- Bypass
	- Param. eq. 20Hz-20kHz; -60/+12dB; Q from=.3 to 200
	- Low & High Shelf 6 / 12 dB / oct
	- Low & High Pass 6 / 12 dB / oct
	- All-Pass 1/2 order
Built In signal generator	- Sine (20Hz to 20kHz)
	- Polarity (20Hz to 20KHz)
	- Pink
	- White
Signal Mute	Yes
Signal Polarity Invert	Yes
Analog Volume remote control (0-10VDC)	0V = no attenuation (0dB)
	+10V = full attenuation (-inf.)
Connectivity	USB 1.1 (2.0 compatible)
	Can provide supply to AMIC while programming

*Measuring AMIC as an independent device

Applications

- Permanent installation management system
- Live sound. Monitor management
- Stereo bi-amped general applications

Accessories

- **WPm series wall panel controls**

AMIC24

The 24bits-48kHz, 2x4 processor featuring a comprehensive and extensive DSP management mainly targeted at permanent professional audio Installations.
Thanks to its external black box conception, AMIC24 offers added versatility and security against unwanted manipulations.
AMIC24 comes with AMICLAB2 exclusive management software for PC: setting up an Installation has never been so clear and easy.

Key Features

- 24bits / 48kHz sampling rate for superior audio quality
- Powerful 48bits DSP architecture allows real time configurations
- Four full independent channels management for an added versatility
- Input selection and gain controls, MUTE and PHASE invert
- Crossover section with 9 different high and low pass filter options. Up to 24dB/oct
- Cross over edge link possibility
- Equalisation section with 11 different filter types. Up to 10 equalisation points running per output channel
- Limiter and compressor section with automatic mode possibility. Compression status indicator
- Independent remote input VCA control
- Independent delay per output adjustable to preferred units (m, cm, s, ms)
- Built in signal generator allows white and pink noise, sine tone and polarity check as an extra versatility tool
- USB controlled by AMICLAB2 included software
- Graphic user interface (GUI) allows all parameters to be edited by a single drag and drop mouse operation
- Password controlled for unwanted set up manipulation
- Full VU-METER control at inputs and outputs
- Grouping channels feature simplifies set up when stereo configurations are required
- Upgradeable DSP firmware
- Full file management

Tech. Characteristics AMIC-lab2

AMIC-lab 2 Software	-Real-time full GUI of all functions -Interactive graphical display -Real time metering at input / output -Save & Recall setup functions -Firmware update capability -Password protection
Operating System	Windows 98SE; WMe; W2000 Prof. (SP4); XP Home (SP1); XP Prof. (SP1)
Minimum AMIC-lab 2 System Requirements	Pentium III 600MHz 128MB RAM 20MB HDD free space 800x600 dpi & 16bits color display

Technical Characteristics AMIC24

Processing	A/D & D/A	24 bit. 48kHz
	DSP	48 bits
	Latency	0.585ms
Input / Output		2 Inputs / 4 outputs
Input Levels	Nominal	0dBV
	Maximum	+12dBV
Input Attenuator		Stepless from -84dB to + 12dB
Input Impedance balanced		30KΩ
Stack Output impedance		300Ω
CMRR (20Hz - 20kHz)		>60dB
Distortion ß odbV 20Hz-20kHz		<0.008%
Frequency Response (-0.3dB)		10Hz - 20kHz
Noise from 20Hz to 20kHz		below -105dB
Crosstalk (20Hz-20kHz)		>85dB
Maximum Delay		910ms (312.5m) global for all 4ch
Delay resolution		20.83us (7mm)
Compressor / Limiter	Threshold	from -48dBV to +12dBV
	Ratio	1:1 to inf:1 (limiter)
	Attack time	Auto or from 0.1ms to 150ms
	Release time	Auto or from 1ms to 5s.

AMIC24

High & Low pass Crossover filters	Butterworth in 6 / 12 / 18 / 24dB / oct Bessel in 12 / 18 / 24dB / oct Linkwitz-Riley in 12 / 24dB / oct
Parametric Eq. types (10 max. per output)	- Bypass - Param. eq. 20Hz-20kHz; -60/+12dB; Q from=.3 to 200 - Low & High Shelf 6 / 12 dB / oct - Low & High Pass 6 / 12 dB / oct - All-Pass 1/2 order
Built In signal generator	- Sine (20Hz to 20kHz) - Polarity (20Hz to 20KHz) - Pink - White
Signal Mute	Yes
Signal Polarity Invert	Yes
Analog Volume remote control (0-10VDC)	0V = no attenuation (0dB) +10V = full attenuation (-inf.)
Connectivity	USB 1.1 (2.0 compatible)
Mains	90-246VAC 47-63Hz
Power consumption	25VA
Dimensions	482.6x44x198mm
Weight	2.25 kg.

Applications

- Permanent installation management system
- Live sound. Monitor management
- Stereo bi-amped general applications

Accessories

- **WPm series** wall panel controls

DP400

Digital loudspeaker management unit. The ultimate solution for accurate control and adjusting of professional sound systems.

Key features

- 2 input / 6 output digital loudspeaker management processor
- Dual 24 bits on board DSP
- 48 kHz sampling rate
- Selectable crossover slopes of 12,18, 24 or 48dB per octave
- Cross over filter types: Butterworth, Linkwitz-Riley or Bessel
- Parametric or shelving equalisation for smooth system frequency response in INPUTS and OUTPUTS
- Available delays in INTPUTS and OUTPUTS
- Limiter and compressor. Compressor output with adjustable threshold, attack and release times
- Phase invert switch per output
- 30 memory bank locations for user programs
- Lock-function for protecting program settings
- Electronically balanced inputs and outputs
- USB control
- 2x20 character backlit LCD
- Fully configurable from PC via DPLAB_2 control software

Applications

- Stereo 3 way loudspeaker management
- 2 way L, C, R configurations
- 1 input / 6 output mono signal processor

Technical Characteristics DP400

Input section	Input impedance	8k Ω electronically balanced
	CMRR	>55dB (30Hz ÷ 20kHz)
	Input connector	XLR3 female
Output section	Output impedance	150 Ω electronically balanced
	Output connector	XLR3 male
Sample rate		48kHz
Frequency response		<10Hz-20kHz
Dynamic range		>102dB
THD		<0.0028% (1kHz, 1Vms)
Crosstalk		>95dB, 30Hz ÷ 20kHz
Crossover filters	Slopes	12, 18, 24 or 48dB/octave (Filter type dependant
	Type	Linkwitz-Riley, Butterworth or Bessel
Delays	Input delay / step	682.52ms / 21 µs
	Output delay / step	21.31ms / 21 µs

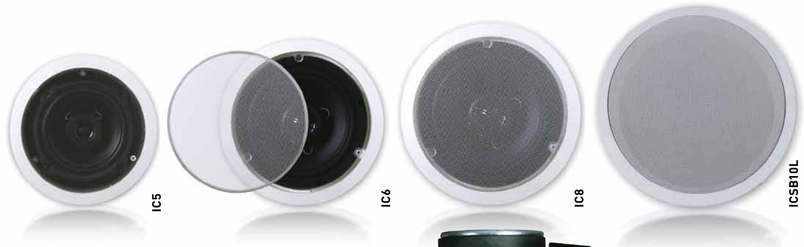
DP400

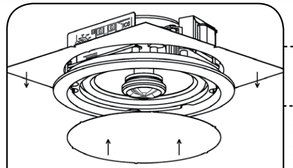
EQ	Input EQ quantity	6 per channel
	Output EQ quantity	4 per channel
	EQ type	Parametric, L-Shelf 6dB, L-Shelf 12dB, HShelf 6dB, H-Shelf 12dB
	EQ gain	-30dB ÷ 15dB step 0.1 dB
	EQ bandwidth	0.016 to 4 octaves
	EQ frecuency	19.7Hz ÷ 21.9 kHZ
Compressor	Threshold	-20 + 10 dBV
	Attack time	0.5 - 50ms
	Release time	10 - 1000ms
	Ratio	1:1, 2:ro 1; ∞
General	Mains	90÷264VAC 50/60Hz
	Power Consumption	25VA
	Dimensions WxHxD	482.6x44x223mm
	Weight	3kg

Accessories

- DP400 is provided with **DPLAB_2** control software for accurate remote unit set up in a simple and effective way.

IC5, IC6, IC8, ICSB10L in-ceiling range





IC and IW series are provided with cut-out and painting template for easy installation

With their discreet design, this line of in-ceiling (IC) and in-wall (IW) speakers is the perfect option for 100 V and low impedance sound solutions. Both series provide excellent sound quality thanks to their infinite baffle philosophy and a top-performance high frequency transducer.

Key features of the IC SERIES

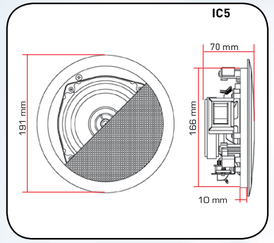
- Two-way (except for the ICSB10) ABS speakers, infinite baffle configuration
- Built-in audio transformer for 100 V use
- Polypropylene woofer that resists heat and humidity
- Front grille may be removed for painting
- Clip-type input terminals
- Cutting and painting templates included
- Support system with 3 rotating tabs
- ICSB10: Included metallic accessories to reinforce installations in standard dropped ceilings

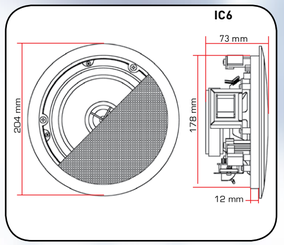
ICSB10L

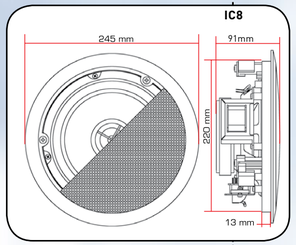
The IC SB10L is the perfect partner for consistent "invisible" bass amplification in installations involving ceiling speakers. Powerful, discreet and easy to install with a simple rotating tab system, this 10" sub-bass has a power of 100 W RMS and a very high acoustic performance. The front grille and frame can be painted to blend in better with the decoration environment. Each IC SB10 unit comes with a set of accessories that make it easy to install it in standard lowered ceiling grids, providing the installation all that much more solid and reliable.

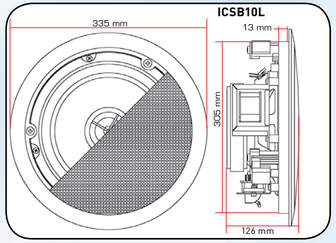
Recommended amplification

- **AMPACK** series
- **PKUB** and **AMI2-70** self-powered mixers
- **HMA180** self-powered mixer
- **MPA-R** multi-channel amplifiers line (low impedance or high impedance with DLA adapters)
- **NZA** multi-channel amplifiers with built-in DSP and remote Ethernet management (low impedance)
- **HZA** multi-channel 100 V line amplifiers
- **HSA** single channel 100 V line amplifiers









IW6PLUS in-wall loudspeakers

IW6PLUS

The IW6PLUS contains a careful selection of components to produce a Hi-Fi-like sound that is ideal for high-quality music and announcements in places requiring in-wall or in-ceiling installation.
It has excellent performance in all frequencies thanks to its adjustable soft dome tweeter and polypropylene woofer, both mounted for performance in accordance with the infinite baffle philosophy.
It comes in pairs and is delivered in three parts (frame, speaker and grille) to cut down the time and complexity ofpainting (if necessary) and installation.

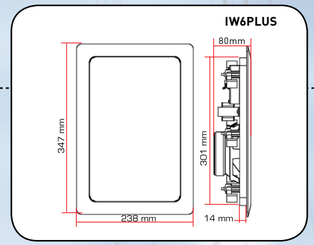
Key features

- Two-way ABS speaker
- Infinite baffle configuration
- Polypropylene woofer with high resistance to heat and humidity
- Front grille may be removed for easy painting (removal hook included)
- Cutting and painting templates included
- Support system with 6 rotating lockscrews (do not detach when reaching the end)
- Comes unassembled (3 parts) to reduce installation times

Recommended amplification

- **AMPACK** series
- **PKUB** and **AMI2-70** self-powered mixers
- **HMA180** self-powered mixer
- **MPA-R** multi-channel amplifiers line (low impedance or high impedance with DLA adapters)
- **NZA** multi-channel amplifiers with built-in DSP and remote Ethernet management (low impedance)
- **HZA** multi-channel 100 V line amplifiers
- **HSA** single channel 100 V line amplifiers

Technical Characteristics	IC5	IC6	IC8	ICSB10L	IW6PLUS
Nominal low impedance	8Ω	8Ω	8Ω	8Ω	16Ω
RMS power	25W	40W	60W	100W	40W
Nominal high impedance	100V LINE	100V LINE	100V LINE	-	-
Power selector	1.5, 3, 6, 12W	2.5, 5, 7.5, 15W	5, 7.5, 15, 30W	-	-
Frequency response (-6dB)	80Hz - 20kHz	70Hz - 20kHz	55Hz - 20kHz	-	92Hz - 20kHz
without LP filter(-10dB)	-	-	-	75Hz - 750Hz	-
LP passive filter cut off frequency	-	-	-	150Hz	-
Sensitivity 1W/1m (Filter off)	88dB	90dB	91dB	93dB	90dB
(Filter on, 80-200Hz)	-	-	-	91dB	-
External diameter	191mm	204mm	245mm	335mm	-
Internal diameter	166mm	178mm	220mm	305mm	-
Recommended cut out diameter	168mm	180mm	222mm	307mm	-
Dimensions of hole for installation	-	-	-	-	188x275mm
Required depth	70mm	73mm	91mm	126mm	80mm
Weight	1.2kg	1.52kg	2.3kg	3.4kg	1.85kg



ECL106i, ECL106iFR in-ceiling range

In ceiling high-efficiency affordable loudspeakers. Suitable for Public Address, BGM and other sound systems employing 100 V lines, where high sound pressure with low amplifier's power is a requirement. They include aluminium front grill and fast mounting system by means of their retractile clips.

Available in the standard (ECL106i) and fire rated (ECL106iFR) versions, compliant with the BS-5839-8 regulation.

ECL106I Key features

- One way, 6" transducer
- Nominal impedance: 8Ω
- Power: 6 W RMS
- Integrated 100 V line transformer
- 100 V line power taps: 0.75, 1.5, 3, 6 W
- Frequency response (±3 dB): 100 Hz - 18 kHz
- Max SPL: 101 dB
- 1 W / 1 m sensitivity: 93 dB
- External diameter: 200 mm
- Recommended cut out diameter: 185 mm
- Required depth: 70 mm
- Weight: 0.67 kg

ECL106IFR Key features

- Includes all the items required to comply with the BS 5839-8 to become a fire rated loudspeaker:
  -Ceramic connector
  -Thermal fuse
  -Fire-proof back can
- One way, 6" transducer
- Nominal impedance: 8Ω
- Power: 6 W RMS
- Integrated 100 V line transformer
- 100 V line power taps: 0.75, 1.5, 3, 6 W
- Frequency response (±3 dB): 100 Hz - 18 kHz
- Max SPL: 101 dB
- 1 W/1 m sensitivity: 93 dB
- External diameter: 200 mm
- Recommended cut out diameter: 185 mm
- Required depth: 90 mm
- Weight: 0.95 kg

Recommended amplification

- HMA180 self-powered mixer
- HZA multi-channel 100 V line amplifiers
- HSA single channel 100 V line amplifiers
- AMPACK series
- AMI2-70TR self-powered mixer
- MPA-R multi-channel amplifiers line
- NZA multi-channel amplifiers with built-in DSP and remote Ethernet management

Applications

- Industrial facilities
- Corporate, office and residential buildings
- Supermarkets, shops, retail stores
- Big public areas
- Transport stations and related facilities
- Health & sport centres

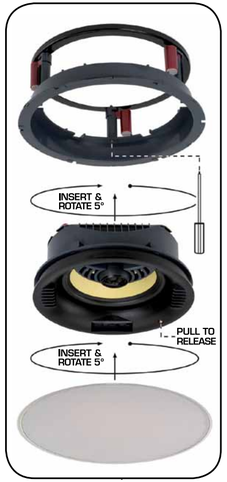
Technical Characteristics	ECL106i	ECL106iFR
Nominal low impedance	8Ω	8Ω
RMS power	6W	6W
Power selector (100V line)	0.75, 1.5, 3, 6W	0.75, 1.5, 3, 6W
Frequency response (±3 dB)	100Hz - 18kHz	100Hz - 18kHz
Maximum SPL	101dB	101dB
Sensitivity 1W/1m	93dB	93dB
External ø	200mm	200mm
Recommended cut out ø	185mm	185mm
Required depth	70mm	90mm
Weight	0.67 kg	0.95 kg

IC6+ IC8+ in-ceiling range

The ICPLUS series of in-ceiling speakers from ECLER integrates a careful selection of components in a design that provides high quality sound and fast installation, using a minimum of tools.

For maximum flexibility and adaptability to multiple installation profiles, the series has a metal back can (included by default) and an optional 100V line transformer.

The ICPLUS series consists of 2 models: IC6+ and IC8+.



Key features

- High quality in-ceiling 2-way speaker
- Kevlar® woofer
- Silk dome (ACCW) tweeter, ± 15º tiltable
- NBR suspension and neodymium magnet
- Light construction in 4 mechanical bodies
- Fast installation system in 3 steps (frame-speaker-grill) using a minimum of tools and integrating an automatic safety pin
- Aluminium front grill
- included metal back can
- Optional 100 V line transformer (as a part of the IC PLF kits)

IC6PLUSBCAN and IC8PLUSBCAN back cans

IC6PLUSTR and IC8PLUSTR 100V line transformers

Recommended amplification

- DPA, XPA and LPA series
- AMPACK series
- PKUB and AMI2-70 self-powered mixers
- HMA180 self-powered mixer
- MPA-R multi-channel amplifiers line (low impedance or high impedance with DLA adapters)
- NZA multi-channel amplifiers with built-in DSP and remote Ethernet management (low impedance)
- HZA multi-channel 100 V line amplifiers
- HSA single channel 100 V line amplifiers

Applications

High quality speech and music playback in:

- Corporate and residential buildings
- Commercial premises
- Leisure centres
- Sound reinforcement in clubs, bars, etc.
- Health and sports centres
- Meeting and conference rooms
- 5.1 and 7.1 surround systems
- Auditoriums, museums

IN-CEILING / IN-WALL SPEAKERS

IC6+ IC8+
in-ceiling range

IC6PLC

IC8PLC

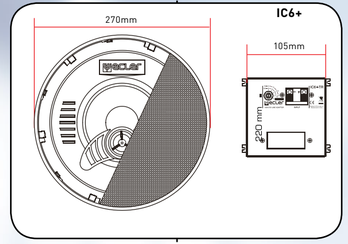
IC6PLF

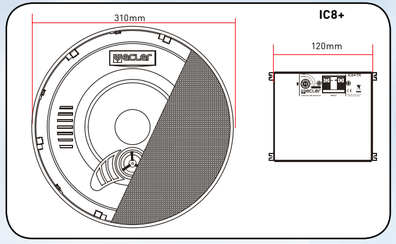
IC8PLF

AVAILABLE IN 4 POSSIBLE KITS:

- **IC6PLC**: 6" woofer + 1" tweeter. 75 W RMS IC6PLUSCAN back can included
- **IC8PLC**: 8" woofer + 1" tweeter. 100 W RMS IC8PLUSCAN back can included
- **IC6PLF**: 6" woofer + 1" tweeter. 75 W RMS IC6PLUSBCAN back can and IC6PLUSTR 100V line transformer included
- **IC8PLF**: 8" woofer + 1" tweeter. 100 W RMS IC8PLUSBCAN back can and IC8PLUSTR 100V line transformer included

Technical Characteristics	IC6+	IC8+
Nominal impedance	8Ω	8Ω
RMS power	75W	100W
Frequency response (-6 dB)	65Hz - 22kHz	50Hz - 22kHz
Sensitivity 1W/1m	86dB	90dB
External diameter	270mm	310mm
Internal diameter	224.5mm	264.5mm
Recommended cut out diameter	227mm	267mm
Required depth	105mm	120mm
Weight	1.5 kg	2 kg





LOUDSPEAKER CABINETS

AMBIT103, AMBIT106, AMBITSB110

AMBIT range is more than just a line of acoustic cabinets for sound reinforcement. AMBIT is the outcome of a study on the present and immediate future needs with respect to background and foreground pro audio applications.

Conceived to integrate into any décor and to provide superb audio quality under a versatile basis.

Key features

- ABS architectural reinforced cabinets range
- Built–in audio transformer for 100V applications
- 8 ohms /100V operation selector
- All models include on-wall hardware, safety sling, screws and wrench for fast installation
- Available in black and white colours to match any décor
- Spring loaded input terminals
- IP rated for weatherproof installations
- Anti UV cabinet avoids colour degradation in case of direct sunlight exposition

Best choice of amplifiers and processors

- HMA180 self-powered mixer
- HZA multi-channel 100 V line amplifiers
- HSA single channel 100 V line amplifiers
- AMPACK series
- AMI2-70TR self-powered mixer
- MPA-R multi-channel amplifiers line
- NZA multi-channel amplifiers with built-in DSP and remote Ethernet management

Applications

- Shopping centres
- Retail shops
- PA distributed sound systems
- Clubs, Cafes, Bars foreground/background reinforcement
- Tourist temporary outdoor installations

Technical Characteristics	AMBIT103	AMBIT106	AMBITSB110
Ways	2	2	1
Nominal low impedance	8Ω	8Ω	8Ω
Max RMS power	25W	50W	200W
Program power	50W	100W	400W
Nominal high impedance	100V LINE	100V LINE	-
Power selector	2.5 / 5 / 7.5 / 15W	5 / 7.5 / 15 / 30W	-
Efficiency SPL 1W 1m	87 dB	93 dB	92 dB
Frequency response at -3dB @ 8Ω	150Hz ÷ 20kHz	110Hz ÷ 20kHz	78Hz ÷ 320Hz
Dimensions WxHxD (without accessories)	120x120x117mm	210x210x160mm	450x320x420mm
Weight	1.275 kg	2.75 kg	15.7 kg

AMBIT103

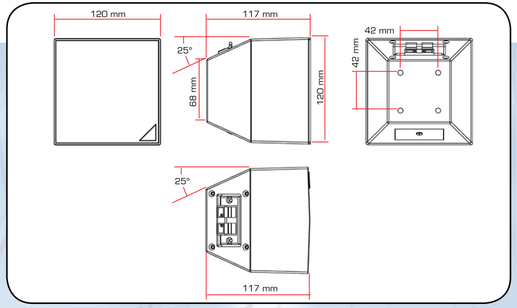
AMBIT103

Ultra compact 2 way coaxial loudspeaker cabinet for non obtrusive applications. Specially suitable for background reinforcement in thematic restaurants, cafés, retail premises and licensed venues.

- 2 way full range ultra compact loudspeaker cabinet
- Built-in audio transformer for 100V applications
- 25 W RMS/8 ohms
- Power selector (100V): 15,7.5,5,2.5 W
- 3.5" polypropylene woofer ensure stability against heat and humidity
- 13mm soft dome coaxial tweeter
- 13 mm soft dome coaxial tweeter
- Included bracket for on-wall installation
- IP54 rated
- Efficiency 87 dB SPL 1W/1m
- Freq response (-3dB) 150Hz – 20kHz
- Dimensions (mm) 120x120x117
- 1.275 Kg

Accessories AMBIT103

- **MP103AMB2, MP103AMB4** for 2 or 4 units cluster configuration.
- Available in black. See dedicated product pages for further information.



AMBIT103, AMBIT106, AMBITSB110

AMBIT106

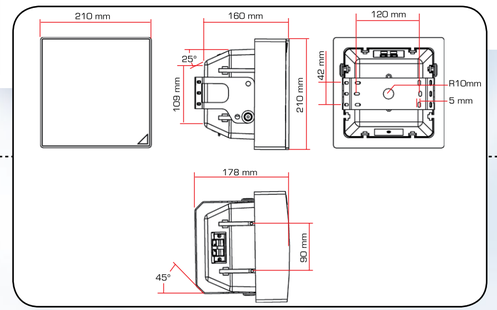
Compact 2 way coaxial loudspeaker cabinet for non obtrusive applications. Specially suitable for background or foreground reinforcement in thematic restaurants, cafés, retail premises and licensed venues.

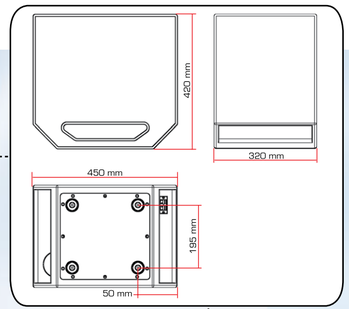
- 2 way full range compact loudspeaker cabinet
- Built-in audio transformer for 100V applications
- 50 W RMS/8 ohms
- Power selector (100V): 30,15,7.5,2.5 W
- 6.5" polypropylene woofer ensure stability against heat and humidity
- 25 mm soft dome coaxial tweeter
- Included U-bracket for on-wall installation
- IP54 rated
- Efficiency 93 dB SPL 1W/1m
- Freq response (-3dB) 110Hz – 20kHz
- Dimensions (mm) 210x210x160
- 2.75 Kg

AMBITSB110

10" direct radiating bass reflex subwoofer. Compact profile surface mounting cabinet.

- 200W RMS/8ohms – 400 W program
- Internal x-over 150Hz, 12 dB/oct
- Efficiency dB SPL 1W/1m
- Single 10" woofer
- Efficiency 92 dB SPL 1W/1m
- Freq response (-3dB) 78Hz – 200Hz
- Dimensions (mm) 450x420x320
- 15.7 Kg





Accessories AMBIT106

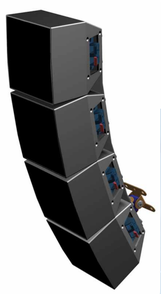
- **MP106AMB2/WH, MP106AMB3/WH, MP106AMB4/WH**: for 2,3 or 4 units cluster configuration. Available in black and white colours
- **SR6/WH**: on wall bracket MP106AMB2 cluster. Available in black and white colours. See dedicated product pages for further information.

MP103AMB2, MP103AMB4, MP106AMB2, MP106AMB3, MP106AMB4

All measurements in mm.

MP103AMB2

Hardware for 2 AMBIT103.
Available in black

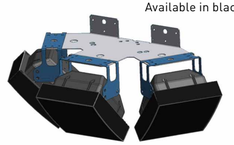


MP103AMB4

Hardware for 4 AMBIT103.
Available in black

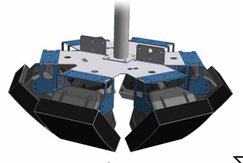
MP106AMB2/WH

Hardware for 2 AMBIT106.
Available in black and white



MP106AMB3/WH

Hardware for 3/6 AMBIT106.
Available in black and white

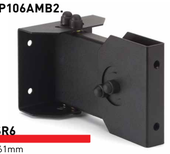


MP106AMB4/WH

Hardware for 4 AMBIT106.
Available in black and white

SR6 ON WALL

Hardware for AMBIT108 and MP106AMB2.
Available in black and white



Mechanical Characteristics SR6

Length	161mm
Max. width	100mm
Max. height	100mm
Pan	170°
Tilt	180°
Wall hole diameter	6mm
Distance between holes for speaker attachment	60 mm

The AUDEO loudspeaker series strikes the perfect balance between the intelligibility and sound reproduction quality requirements currently demanded in the professional audio installation and ever increasing demands with respect to aesthetics, design and integration into all types of architectural environments.

AUDEO has a balanced, innovative design, resulting from the collaboration between Ecler and the prestigious group Giugiaro Design during the conceptual and the external design phases of the speakers. This factor, together with its high quality sound reproduction, make this series the ideal solution for use in numerous sound projects: corporate and residential buildings, commercial premises, leisure centres, health centres, conference and meeting rooms, auditoriums, museums, etc.

This versatile series, which comes in three sizes (AUDEO 103, 106 and 108), and in black or white, is completed by its wall/ceiling supports which allow the cabling to be concealed and make it possible to install the speakers at low (8 ohms) or high impedance operation (100 V line).

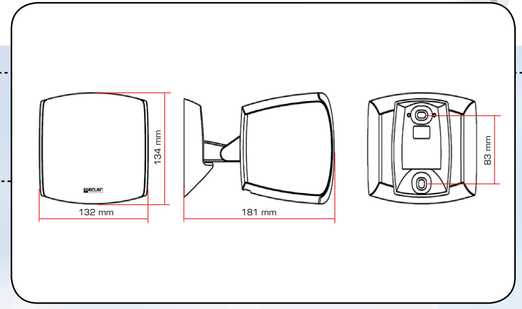
In addition to the included wall bracket, the 103 and 106 models can use the DSTANDAUDE0 desktop stand. If you need to mount the AUDEO speakers on a microphone stand, then the MSTANDAUDE0 is the right accessory to use.
For a subwoofer reinforcement of the AUDEO series speakers, try the AUDEO SB110P self-powered subwoofer cabinet.

Key features

- Full range, 2-way acoustic boxes.
- Made of reinforced ABS
- Available in black or white
- 8 ohms / 100 V line operating switch
- Accessories for wall-mounting included
- IP 54 class for installing outdoors
- Protective grille at the front with anti-rust treatment

AUDE0103

- 25 W RMS - 8 ohms
- Efficiency: 90 dB SPL 1 W / 1 m
- 8 ohm / 100 V (2.5, 5, 7.5 or 15 W) mode switch
- 3.5" woofer and 13 mm Tweeter
- Frequency response (-10 dB):
- 110 Hz to 20 kHz
- Dimensions: 132 x 134 x 110 mm
- Weight: 1.45 kg



Recommended amplification:

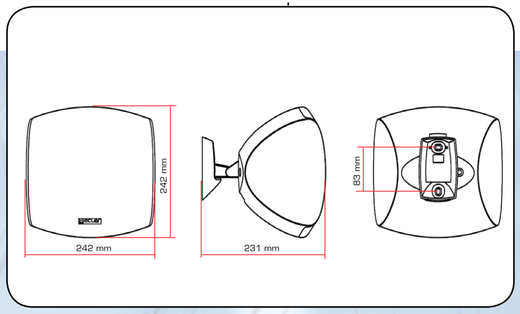
- HMA180 self-powered mixer
- HZA multi-channel 100 V line amplifiers
- HSA single channel 100 V line amplifiers
- AMPACK series
- AMI2-70TR self-powered mixer
- MPA-R multi-channel amplifiers line
- NZA multi-channel amplifiers with built-in DSP and remote Ethernet management
- DPA, XPA and LPA stereo amplifiers

Applications:

- Corporate and residential buildings
- Commercial premises
- Leisure centres
- Sound reinforcement in clubs, bars, etc.
- Health and sports centres
- Meeting and conference rooms
- Auditoriums, museums

AUDE0106

- 50 W RMS - 8 ohms
- Efficiency: 92,5 dB SPL 1 W / 1 m
- 8 ohm / 100 V (5, 7,5, 15 or 30 W) mode switch
- 6.5" woofer and 25 mm Tweeter
- Frequency response (-10 dB): 90 Hz to 20 kHz
- Dimensions: 242 x 242 x 163 mm
- Weight: 2.3 kg

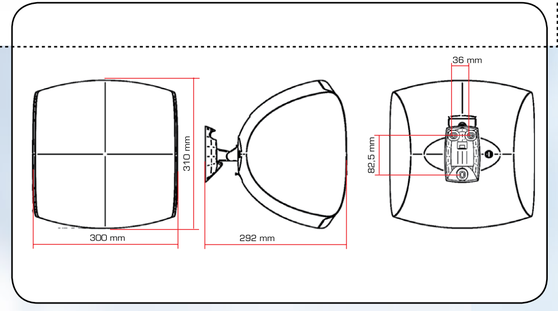


AUDE0108

AUDE0108

- 100 W RMS - 8 ohms
- Efficiency: 94,5 dB SPL 1 W / 1 m
- 8 ohm / 100 V (7,5, 15, 30 o 60 W) mode switch
- 8" Kevlar woofer and 1" ACCW silk dome tweeter
- Frequency response (-10 dB): 65 Hz to 22 kHz
- Aluminium made wall bracket
- Dimensions: 300 x 310 x 225 mm
- Weight:: 3.75 kg

Technical Characteristics	AUDE0103	AUDE0106	AUDE0108
Ways	2	2	2
Nominal low impedance	8Ω	8Ω	8Ω
Max RMS power	25W	50W	100W
Program power	50W	100W	200W
Nominal high impedance	100V LINE	100V LINE	100V LINE
Power selector	2.5 / 5 / 7.5 / 15W	5 / 7.5 / 15 / 30W	7.5 / 15 / 30 / 60W
Efficiency SPL 1W 1m	90 dB	92.5 dB	94.5 dB
Frequency response at -3dB @ 8Ω	110Hz ÷ 20kHz	90Hz ÷ 20kHz	65Hz ÷ 22kHz
Dimensions WxHxD (without accessories)	132x134x110mm	242x242x163mm	300x310x223mm
Weight	1.45 kg	2.3 kg	3.75 kg



PRODUCT

AUDE0SB110P

The AUDEO SB110P is the self-powered subwoofer reinforcement unit of the AUDEO series. With a discreet design that enables its use in any environment, this 10", 150 W RMS model, is the ideal partner for the AUDEOs in those music applications where extended low-end response is required.

Key features

- 10" driver
- 150 W RMS integrated amplifier
- RCA inputs with mono conversion
- RCA stack outputs (link to other SB110P units, AUDEO speakers, etc.)
- PHASE and volume controls
- Internal 150Hz/18dB oct. LPF

DSTANDAUDEO

Desktop stand for the AUDEO103 and AUDEO106 models

MSTANDAUDEO

Microphone stand adapter for the AUDEO series speakers

AUDE0SB110P

MSTANDAUDEO

Technical Characteristics		AUDE0SB110P
Driver		1x10" Bass
Power output (RMS)		150W
Maximum SPL (dBΩ1m)		112dB
Inputs sensitivity nom/impedance		0dBV 1V ÷ 1kΩ
Connector type		RCA
Frequency response (-10dB)		40Hz
Crossover filter (-3dB)		150Hz/18dB oct.
Mains		AC 115V/230V 50-60Hz
Power consumption	(pink noise, 1/8 power)	107VA
	(pink noise, 1/3 power)	152VA
	(max.power)	237VA
Dimension (WxDxH mm/Pcs.)		310x505x420mm
Weight		16.75kg

DSTANDAUDEO

MSTANDAUDEO

PRODUCT

AUDEO106P

SELF-POWERED AUDEO KIT

AUDEO106P kit

The AUDEO106P self-powered kit is the embodiment of the successful and highly reputed AUDEO series in a user-friendly and cost-effective formula that can become the perfect solution in a massive number of multimedia applications. A professional and compact loudspeaker stereo kit with a fantastic performance and a unique design that will easily fit in education classrooms, corporate meeting rooms, retail stores, etc.

Key features (PRELIMINARY)

- Self-powered + passive loudspeaker couple kit
- Full-range, 2 way (6" + 1") loudspeakers
- Stereo balanced input with Euroblock connectors (MASTER unit)
- Stereo unbalanced input with RCA connectors (MASTER unit)
- Euroblock SLAVE unit connector
- Integrated 2 x 20 W RMS amplifier (MASTER unit)
- Integrated and universal power supply (MASTER unit)
- Auto stand-by function (saving energy is assured, no need for a daily ON / OFF switching)
- 2 band tone control & volume control knobs easily identified and gestured
- Anti-Clip integrated system
- ON / STD. BY, Signal Present and CLIP LED indicators
- Reinforced ABS construction
- Available in black or white
- Included wall bracket and security steel cable
- Compatible with the AUDEO series desktop and microphone stand mounting accessories

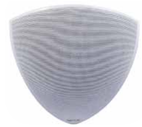
Accessories

- DSTANDAUDEO desktop stand
- MSTANDAUDEO standard microphone stand adapter
- AUDEOSB110P self-powered subwoofer reinforcement unit

Applications

- Education classrooms
- Multimedia, corporate and conference meeting rooms
- Retail stores
- Leisure centres
- Health and sport centres
- Museums
- Residential buildings

NEST106



MP106NEST2

MP106NEST3

MP106NEST4

The NEST106 installation speaker is the result of an in-depth analysis of current and future needs for background music and voice systems. Retail stores, shopping malls, schools, conference rooms, hotels, industrial facilities, offices, museums, meeting halls, hospitals, recreational areas, etc. are just some of the more obvious and direct applications for the NEST106. However, being aware of the considerable variety of locations and situations that can play host to a speaker, the design team at Ecler wanted to take it a step further and has made the dreams of increasingly more demanding installers and decorators come true:

- Integration. The special shape of the NEST106, with a front panel in the shape of a partial sphere (1/8th of a sphere) and the back in the shape of a triangular pyramid, permits a wide variety of potential installations, ranging from an individual loudspeaker cabinet, fitting perfectly in a corner, to several units combined to make portions of a sphere or even a complete sphere.

- Exclusivity. There is no other speaker like it. It is a unique Ecler design that is different, personal and most importantly: can be adapted to a wide variety of situations. It consists of a two-way system with a concentric tweeter on top of a woofer.

- Flexibility. The NEST106 comes with a switch that lets you configure the speaker for its desired function. All of the boxes can work in low or high impedance (100 V line), and in the latter case, at different levels of power. Simple, quick and versatile.

- Reliability and quality. The NEST106 is, first and foremost, a speaker with a surprising sound quality, particularly in view of its size. This is due in part to its particular shape, which produces an interior volume that is much higher than the subjective, perceived volume. 60 W RMS of power with a performance of 93 dB SPL@1W/1m are hard to beat in speakers with these characteristics.

Key features

- Full range, 2-way speaker.
- Built-in 100 V line transformer
- 8 ohms / 100V (7, 10, 15 or 30 W) operating selector switch
- Euroblock-type connector
- Comes with accessories for wall-mounting, connectors, screws and Allen key
- IP54 class for installing outdoors

Technical Characteristics	NEST106
Ways	2
Nominal low impedance	8Ω
Max RMS power	60W
Program power	120W
Nominal high impedance	100V LINE
Power selector	5/7,5/15/30W
Efficiency SPL 1W 1m	93dB
Frequency response at -6dB @ 8Ω	110Hz ÷ 20kHz
Dimensions WxHxD (without accessories)	330x230x197mm
Weight	3.250kg

Applications

- Messages and background music over 100 V or low impedance lines
- Shopping and leisure centres
- Corporate and residential buildings
- Commercial premises, franchise stores
- Museums, exhibition halls
- Sound reinforcement in discos, bars and restaurants

Accessories

- **MP106NEST2:** 2 NEST106 units wall mount bracket
- **MP106NEST3:** 3 NEST106 units corner mount bracket
- **MP106NEST4**: ceiling bracket for half sphere configurations (4 NEST106 units)

Recommended amplification

- DPA, XPA and XLA series
- AMPACK series
- PKUB and AMI2-70 self-powered mixers
- HMA180 self-powered mixer
- MPA-R multi-channel amplifiers line (low impedance or high impedance with DLA adapters)
- NZA multi-channel amplifiers with built-in DSP and remote
- Ethernet management (low impedance)
- HZA multi-channel 100 V line amplifiers
- HSA single channel 100 V line amplifiers

AC24 AC44

AC24 / AC44

The AC24 and AC44 Acoustic Columns have been specially designed for Sound Reinforcement and Public Address applications where a linear installation loudspeaker is required. They're usually installed on columns or walls, delivering a good coverage and frequency response for background music and speech uses.

Thanks to their IP44 rating, with a white aluminium cabinet and front grill, they can even be used in some kinds of outdoor locations.

Key features AC24

- 2 x 4" Full range loudspeaker
- Max RMS Power: 20W
- Frequency response: 100 – 18 kHz
- Power Taps 100V (70V): 20W / 10W (10W / 5W)

Key features AC44

- 4 x 4" Full range loudspeaker
- Max RMS Power: 40W
- Frequency response: 100 – 18 kHz
- Power Taps 100V (70V): 40W / 20W (20W / 10W)

- Aluminium construction (cabinet and front grill), IP44
- White finish
- Included installation brackets with tilt adjustment

Technical Characteristics	AC24	AC44
Frequency response	100-18kHz	100-18kHz
Sensitivity	91±3dB	93±3dB
Max RMS Power	20W	40W
Power Taps 100V (70,7V)	20W/10W (10W/5W)	40W/20W (20W/10W)
Dimensions HxWxD mm	373x152x100	613x152x100
Weight	2.54kg	3.92kg
Cabinet Material	Powder Coated Aluminium	
Grill Material	Powder Coated Aluminium	
Colour	White	
Component	2x4" Full range speaker	4x4" full range speaker

IG108

The IG108 is an in-ground weatherproof loudspeaker (IP65) with an omni directional horizontal dispersion pattern (360º). It is ideal for music and message applications in outdoor areas where a reliable yet high quality sound system is required.

Key features

- IP65 outdoor rated loudspeaker
- 100 W RMS @ 8 ohms
- Efficiency: 91 dB SPL 1 W / 1 m
- 8 ohm / 100 V (7,5, 15, 30 o 60 W) tap switch
- 8" Kevlar woofer and 1" ACCW silk dome tweeter
- Frequency response (-6 dB): 65 Hz to 22 kHz
- Omni directional horizontal coverage pattern (a cir cular area with an average radius of 4 to 6 meters can be covered by one unit)
- Security ground bracket included
- Diameter: 366 mm
- Height: 394 mm
- Weight: 7.5 kg

PHS20T, MSP50T and PRS10T are products carefully selected for the most extended 100V/70V paging and background music applications, offering durability and optimal speech and music reproduction. All models are manufactured in reinforced ABS and are IP rated and therefore suitable for outdoor superior performance.

PHS20T Key features

- ABS weatherproof horn loudspeaker
- IP56
- Power tappings (100V) : 15, 7.5, 3.75, 2 W
- 20 W RMS/8 ohms
- Freq response (-3dB): 300Hz - 8kHz
- Efficiency: 102 dB SPL 1W/1m
- Dimensions (diameter x depth) : 200x233 mm
- 1.3 Kg

PRS10T Key features

- ABS weatherproof sound projector
- IP55
- Power tappings (100V) : 10, 5, 2.5 W
- Freq response (-3dB): 130Hz - 15kHz
- Efficiency: 91 dB SPL 1W/1m
- Dimensions (diameter x depth) :136x220 mm
- 1.6 Kg

MSP50T Key features

- ABS weatherproof two way musical horn
- IP56
- Power tappings (100V) : 50, 25, 12.5, 9, 4.5, 3.5W
- Freq response (-3dB): 90Hz-20kHz
- Efficiency: 99 dB SPL 1W/1m
- Dimensions (mm): 250x360x320
- 3.9 Kg

Technical Characteristics	PRS10T	PHS20T	MSP50T
Nominal low impedance		8W	8W
RMS power	10W	20W	50W
Nominal high impedance	100V LINE 10, 5, 2.5W	100V LINE 15W, 7.5W, 3.75W, 2W 70.7V LINE 15W, 7.5W, 3.75W, 2W, 1W	100V LINE 50, 25, 12.5, 9, 4.5, 3.5W
Frequency response (-6dB)	150Hz - 15kHz	300Hz - 8kHz	70Hz - 20kHz
Sensitivity 1W/1m	91dB	102dB	99dB
Dimensions (diameter x depth)	136x220mm	200x233mm	250x360x320mm
Weight	1.6kg	1.35kg	3.95kg

Applications

- General paging and background music reproduction in 100V/70V installations

VERSO8P, VERSO10P, VERSO12P

A line of self-powered speakers made of high-density plastic with great resistance. Separate amplifiers for low and high frequencies. Integrated 2-channel mixer. Three models whose high quality and versatility make them ideal for use in fixed and mobile applications and also as stage monitors.

The external design of the speakers, which is modern and balanced, has been created in collaboration with the reputed team Giugiaro Design.

Key features

- Full range, 2-way, self-powered speakers
- Active crosover with 24 dB/oct slope
- Two MICRO/LINE XLR inputs with sensitivity switch
- Two way mixer
- 3-band tone control at mixer output
- Balanced "STACK OUT" output for connection to other units or amplifiers
- Effective protection system to reduce signal clipping
- Carry handles at the rear
- 6 flying points
- Prepared for landscape installation on the ground, with no need for accessories
- Protective grille at the front, acoustically transparent
- 35 mm stand at the base for pole mount

VERSO8P

- 200 W RMS
- maximum SPL: 118 dB
- HxV dispersion: 80°x 60°
- 8" polypropylene woofer and 25 mm compression driver
- Frequency response (-3dB): 80 Hz - 20 kHz
- Dimensions: 291 x 241 x 398 mm
- Weight: 9.9 kg

VERSO10P

- 300 W RMS
- maximum SPL: 120 dB
- HxV dispersion: 80°x 60°
- 10" woofer and 34 mm compression driver
- Frequency response (-3dB): 65 Hz - 20 kHz
- Dimensions: 350 x 290 x 475 mm
- Weight: 16 kg

VERSO12P

- 450 W RMS
- maximum SPL: 123 dB
- HxV dispersion: 80°x 60°
- 12" woofer and 44 mm compression driver
- Frequency response (-3dB): 50 Hz - 20 kHz
- Dimensions: 447 x 368 x 607 mm
- Weight: 24,05 kg

Handle for ease transportation

Technical Characteristics	VERSO8P	VERSO10P	VERSO12P
System	Active Crossover two way full range active cabinet		
Driver	1x8"(Bass) 1x34mm (Treble)	1x10"(Bass) 1x34mm (Treble)	1x12"(Bass) 1x44mm (Treble)
Power output (RMS)	200W	300W	450W
Maximum SPL (dB@1m)	118dB	120dB	123dB
Dispersion (HxV)	80° x 60°	80° x 60°	80° x 60°
Inputs sensitivity nom/impedance Micro	-40dBV 10mV 20kΩ	-40dBV 10mV 20kΩ	-40dBV 10mV 20kΩ
(Balanced) Line	-20dBV 316mV 20kΩ	-10dBV 316mV 20kΩ	-10dBV 316mV 20kΩ
Connector type	XLR3	XLR3	XLR3
Frequency response (-10dB)	80Hz-20kHz	65Hz-20kHz	50Hz-20kHz
Tone control Crossover frequencies	250Hz-5.5kHz	250Hz-5.5kHz	250Hz-5.5kHz
Gain	-20dB + 10dB	-20dB + 10dB	-20dB + 10dB
Signal present indicator	-35dBV	-35dBV	-35dBV
Mains	AC 115V/230V 50-60Hz	AC 115V/230V 50-60Hz	AC 115V/230V 50-60Hz
Power consumption (pink noise 1/8 power)	41VA	95VA	134VA
(pink noise 1/3 power)	45VA	112VA	168VA
(max. power)	350VA	680VA	770VA
Dimension (WxDxH mm/Pcs)	291x241x398mm	350x290x475mm	447x368x607mm
Packaging dimension (WxDxH mm/Pcs)	340x300x480mm	410x355x555mm	520x440x700mm
Net weight (kg/Pcs)	9.9kg	16kg	24.05kg
Gross weight	11kg	17.6kg	26.7kg

Applications

- Sound for events and audiovisual presentations
- Sound reinforcement
- Stage monitors
- Clubs, discos and leisure centres
- Mobile discos

VERSO8, VERSO10, VERSO12

A full range, 2-way speakers line made of high-density plastic material and with great resistance. Three models whose high quality and versatility make them ideal for use in fixed and mobile applications and also as stage monitors.

The external design of the speakers, which is modern and balanced, has been created together with the reputed team Giugiaro Design.

Key features

- Full range, 2-way speakers
- Carefully-studied selection of components
- Efficient Larsen high-frequency protection system (feedback) and signal clipping
- Carry handle at the rear
- 6 flying points
- Prepared for landscape installation on the ground, with no need for accessories
- Protective grille at the front, acoustically transparent
- 35 mm stand at the base for pole mount
- Speakon® connectors

VERSO8

- 150 W RMS / 8 ohms (300 W programme)
- Output: 97 dB SPL 1 W / 1 m
- HxV dispersion: 80°x60°
- 8" polypropylene woofer and 25 mm compression driver
- Frequency response (-3dB): 70 Hz - 18 kHz
- Dimensions: 291 x 241 x 398 mm
- Weight: 8 kg

VERSO10

- 250 W RMS / 8 ohms (500 W programme)
- Output: 96 dB SPL 1 W / 1 m
- HxV dispersion: 80°x60°
- 10" woofer and 34 mm compression driver
- Frequency response (-3dB): 60 Hz - 18 kHz
- Dimensions: 350 x 290 x 475 mm
- Weight: 12.5 kg

VERSO12

- 350 W RMS / 8 ohms (700 W programme)
- Output: 98 dB SPL 1 W / 1 m
- HxV dispersion: 80°x60°
- 12" woofer and 44 mm compression driver
- Frequency response (-3dB): 50 Hz - 18 kHz
- Dimensions: 447 x 368 x 607 mm
- Weight: 20.35 Kg

Technical Characteristics	VERSO8	VERSO10	VERSO12
System	Built-in Crossover two way full range speaker		
Driver	1x8"(Bass) 1x34mm(Treble)	1x10"(Bass) 1x34mm(Treble)	1x12"(Bass) 1x44mm(Treble)
Frequency response (-10dB)	80Hz-20kHz	60Hz-18kHz	50Hz-18kHz
Sensitivity (dB@1m 1W)	97dB	96dB	98dB
Impedance	8 ohms	8 ohms	8 ohms
Power rating (RMS)	150W	250W	350W
Maximum SPL (dB@1m)	119dB	120dB	123dB
Dispersion (HxV)	80°x60°	80°x60°	80°x60°
Connector type	2xNL4	2xNL4	2xNL4
Dimension(WxDxH mm/Pcs)	291x241x398mm	350x290x475mm	447x368x607mm
Packaging Dimension (WxDxH mm/Pcs)	340x300x480mm	410x355x555mm	520x440x700mm
Net weight (kg/Pcs)	8kg	12.5kg	20..35kg
Gross weight (kg/Pcs)	9kg	14kg	22.7kg

Applications

- Sound for events and audiovisual presentations
- Sound reinforcement
- Stage monitors
- Clubs, discos and leisure centres
- Mobile discos

VERSOSB115P

The VERSOSB115P is the self-powered subwoofer reinforcement unit of the VERSO series. Its compact design is ideal for those musical mobile applications where you need an extra punch at the low-end side of the audible spectrum.

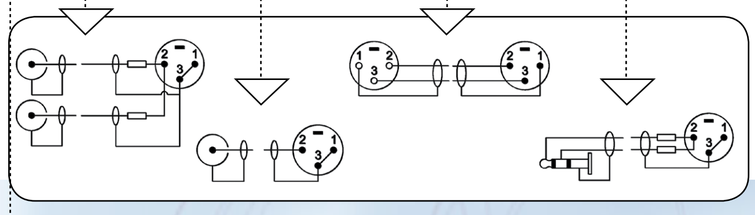
Key features

- 15" driver
- 500 W RMS integrated amplifier
- XLR inputs with mono conversion
- XLR stack outputs (link to other SB115P units, VERSO P speakers, etc.)
- PHASE and volume controls
- Internal 100 or 150 Hz LPF (selectable)
- Top-hat 35 mm. standard pole mount socket
- Optional wheel kit (QRA + WH200 KIT)

Technical Characteristics		VERSOSB115P
System		Bass active cabinet
Driver		15"x1
Power output (RMS)		500W
Maximum SPL (dB@1m)		125dB
Inputs sensitivity nom/impedance		0dBV 1V 20kΩ (Balanced)
Input connector type		XLR3 balanced
Stack connector type		XLR3 balanced
Frequency response (-3dB)		35Hz–100Hz /35Hz–150Hz
THD + Noise @ 1kHz Full power		<1%
Low pass filter 12dB/oct.		100Hz / 150Hz
Indicators: Signal present Clip		-40dBV
Mains		AC 115V/230V* 50-60Hz
Power consumption	(pink noise, 1/8 power)	250VA
	(pink noise, 1/3 power)	440VA
Dimension (WxDxH) (without accessories)		590x490x450mm
Net weight		41.3kg

VERSO AND VERSOP ACCESSORIES

CNX2RCAXLR2 | CNXRCAXLR2 | CNXXLRXLRIM5/5/10/20 | CNXMJXLR2



Wall brackets and tripod mounting

- **TRIP01**: 35 mm adjustable tripod
- **SR8**: wall support for VERS08, VERS08P, VERSO10, VERSO10P
- **SR12**: wall support for VERSO10, VERSO10P, VERSO12, VERSO12P

Audio signal connections

High quality pre made audio connections complete the Verso versatility:

- **CNX2RCAXLR2**: 2 x RCA (stereo) - 1 x XLRM 2 m wire
- **CNXRCAXLR2**: RCA - XLRM 2 m wire
- **CNXXLRXLR**: 1M5 / 5 / 10 / 20: XLRM - XLRF 1.5, 5, 10, 20 m wire
- **CNXMJXLR2**: jack 3.5 mm (stereo) - XLRM 2 m wire

XLR - XLR cables are available in four different wire lengths: 1.5, 5, 10 and 20 m. All connections use OFC and PVC protective jacket. Stereo to mono connections include internal resistors for load protection and proper audio signal addition.

BAGVERSO8, BAGVERSO10, BAGVERSO12

Transportation bags

- **BAGVERSO8, BAGVERSO10, BAGVERSO12**: bag for easy transportation and storage

The new DACORDi series is an update to the successful DACORD series based on requests by our clients and an added series of improvements:

- The impedance has been changed from 4 to 8 ohms, which is very important in configurations with a large number of loudspeakers, since it facilitates the task of connecting them in parallel or in parallel-series combinations.
- New look: new, remodelled front grille with interior sound screen and new logo

Key features

- Loudspeaker cabinets in high-quality 15 mm plywood
- Lyre bracket included for ceiling or wall mounting (except on DACORDT108i)
- 1.5 mm front grille with internal acoustically transparent screen
- Built-in passive filter
- HI/LO high frequency response switch
- Speakon connectors (input and stack) built into carry handle
- Available in black and white
- For extra reinforcement of low tones, we recommend using DACORDSB208 or DACORDSB212.

Applications

- Shops and stores
- Sports centres
- Conference rooms
- Audiovisual presentations
- Corporate halls
- Perimeter support in clubs
- Cafes
- Restaurants
- Theme parks

Accessories

- **TRIP01**: 35mm adjustable tripod for DACORDT208i
- **SR12** wall anchor for DACORDT208i
- **SRDABK/WH** accessory for anchoring in ceilings. Facilitates direction of the sound box. Available in black and white.

Recommended amplification and processing

- DPA series + AMIC DSP integrated card
- XPA and LPA series
- MPA-R multi-channel amplifiers
- NZA multi-channel amplifiers with built-in DSP and remote Ethernet management

Technical Characteristics	DACORD T108i	DACORD T208i	DACORD H206i	DACORD H208i	DACORDSB208	DACORDSB212
Ways	2	2	2	2	1	1
Nominal impedance	8Ω	8Ω	8Ω	8Ω	4Ω	4Ω
Max RMS power	150W	300W	220W	300W	300W	700W
Program power	300W	600W	440W	600W	600W	1400W
Efficiency SPL 1W 1m	93dB	91dB	95dB	93dB	93.5 dB	98 dB
Max SPL 1m	-	-	-	-	122.5 dB	126 dB
Frequency response at –10dB	60Hz÷20kHz	55Hz÷20kHz	65Hz÷20kHz	55Hz÷20kHz	40Hz÷200Hz	40Hz÷300Hz
Filter cut-off frequency (slope –6 &-12 dB/oct)	4.5kHz	4.5kHz	3.5kHz	3.5kHz	-	-
Horizontal dispersion	-	-	90º	90º	-	-
Vertical dispersion	-	-	60º	60º	-	-
High frequency attenuation switch	-	-	6dB	4dB	-	-
Dimensions (without accessories) mm	276x360x280	478x360x332	218x645x272	282x670x310	548x447x355	696x590x474
Weight	7.62kg	13.90kg	12.50kg	14.45kg	21.85kg	45.35kg

DACORDT108I

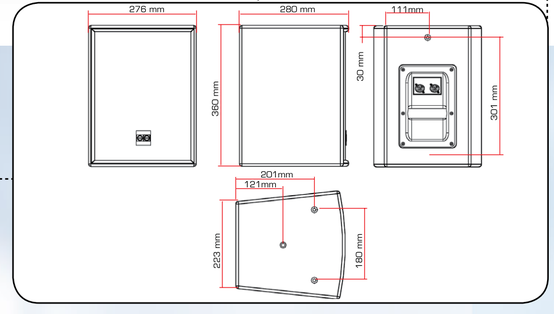
Ultra compact, high-performance speaker for sound in dance clubs, theme restaurants, cafés, businesses, etc.

- Compact full-range two-way loudspeaker
- 150 W RMS/8 ohms – 300 W programme
- Efficiency: 93 dB SPL 1 W/1 m
- 8" polypropylene woofer, 52 mm coil
- 1" tweeter
- 7.62 kg
- Frequency response (-3 dB): 78 Hz – 22 kHz
- Dimensions (mm): 276x360x280
- 6xM8 hanging points

DACORDT108i Accessories

SR100:

- Meets Vesa 50/75/100 mm
- Load capacity: 30 kgs
- Tilt: -30 ~ 0 degree, Swivel: 180 degree
- Material: Steel
- Speaker to Wall : 105mm
- Hardware included



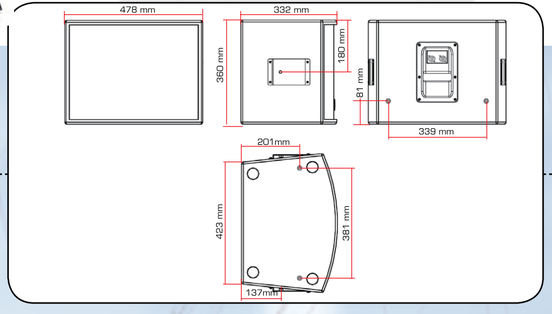
DACORDT208I

Ultra compact, high-performance speaker for sound in audiovisual rooms, theme restaurants, cafés, businesses and mobile applications.

- Full-range two-way loudspeaker
- 300 W RMS/8 ohms – 600 W programme
- Efficiency: 96 dB SPL 1 W/1 m
- Double 8" polypropylene woofer, 52 mm coil
- Double 1" tweeter
- 13.90 kg
- Frequency response (-3 dB): 70 Hz – 18 kHz
- Dimensions (mm): 478x360x332
- 6xM8 hanging points, 35 mm stand

DACORDT208i Accessories

- **TRIP01**: 35 mm adjustable tripod
- **SR12**: 35 mm adjustable wall anchor (250x12 0mm). 250x140 mm wall plate, four 10 mm holes.
- **SRDABK/WH**: accessory for simple ceiling installation. Facilitates direction of the speaker



DACORDH206i

DACORDH206I

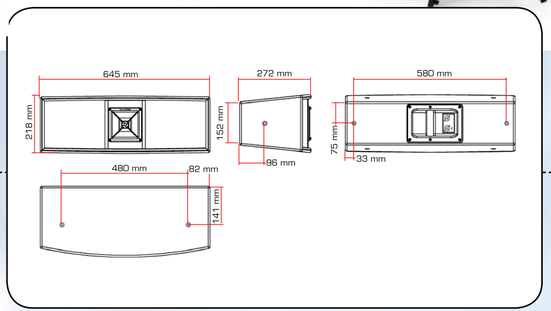
Designed to provide high levels of sound pressure in a compact, lightweight, easy-to-integrate design concept. Additional versatility: its Presence switch allows for rapid adjustment of high frequencies for optimum response for any situation or use.

- Compact full-range two-way loudspeaker
- 220 W RMS/8 ohms – 440 W programme
- Efficiency: 95 dB SPL 1 W/1 m
- Double 6.5" woofer, 49.5 mm coil
- Exclusive 1" compression motor
- 90°x60° adjustable horn
- Presence switch for adjusting high frequencies
- 12.5 kg
- Frequency response (-3 dB): 76 Hz – 19.5 kHz
- Dimensions (mm): 218x645x272
- 6xM8 hanging points

Ideal for low-ceiling applications. The DACORDSB208 increases its response in low frequencies and dual amplified applications.

SRDABK

SR100



DACORDH206i Accessories

- **SR10**: adjustable wall anchor (225x150 mm). 85x150 mm wall plate, four 6 mm holes.
- **SRDABK/WH**: accessory for simple ceiling installation. Facilitates direction of the speaker

DACORDH208I

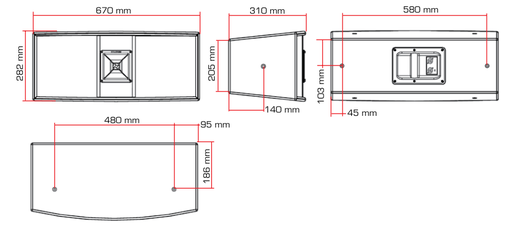
Designed to provide high levels of sound pressure in a compact, lightweight, non-obtrusive design concept. Additional versatility: its Presence switch allows for rapid adjustment of high frequencies for optimum response for any situation.

- Full-range two-way loudspeaker
- 300 W RMS/8 ohms – 600 W programme
- Efficiency: 96 dB SPL 1 W/1 m
- Double 8" polypropylene woofer, 52 mm coil
- Exclusive 1" compression motor
- 90°x60° adjustable horn
- Presence switch for adjusting high frequencies
- 14.45 kg
- Frequency response (-3 dB): 70 Hz– 19.5 kHz
- Dimensions (mm): 282x670x310
- 6xM8 hanging points

Especially intended for vocal reproduction. The DACORDSB208 increases its response in low frequencies and dual amplified applications.

SRDABK

DACORDH208i



DACORDH208i Accessories

- **SRDABK/WH**: accessory for simple ceiling installation. Facilitates direction of the speaker

DACORDSB208

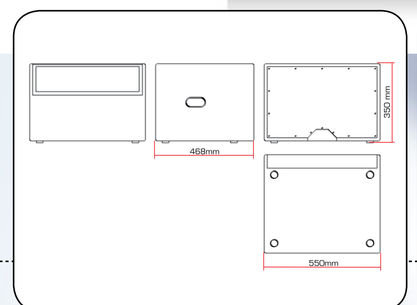
Following the steps of the new SB212, the SB208 is a very compact size and high efficiency subwoofer, ideal for the reinforcement of the DACORD and AUDEO series.

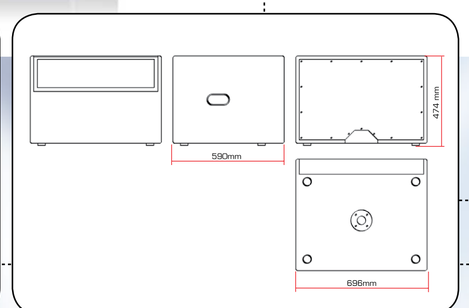
Key features

- 3 chamber dual 6th order bandpass cabinet
- Ways: 1
- Double 8" woofer
- 300 W RMS @ 4 ohms (600 W program)
- Low pass filter tuned at 120 Hz, 12 dB / octave
- Efficiency SPL 1 W / 1 m: 93.5 dB
- Max SPL 1 m: 122.5 dB
- Frequency response at -10 dB: 40Hz to 200Hz
- Flying points available in top and bottom faces (logo can rotate 180°)
- Dimensions (without accessories): 548 x 467 x 355 mm
- Weight: 21.85 kg

DACORDSB208

DACORDSB212





DACORDSB212

With a focus based on permanent contact and follow-up with installers and interior design and system integration professionals, the DACORD line of speakers is intended for fixed installation, especially in environments requiring a compact, high-performance, easy-to-install loudspeaker with excellent sound quality. This subwoofer was specially designed to complement the other speakers in the DACORD/DACORDi and VERSO series.
It was manufactured using high-quality 18 mm plywood.
It includes two 12" woofers with a ceramic magnet and a 75 mm coil.

Key features

- Three-chamber speaker box, 6th order bass filter
- Ways: 1
- Nominal impedance: 4Ω
- RMS power: 700 W
- Programme power: 1400 W
- SPL performance 1 W / 1 m: 98 dB
- SPL maximum 1 m: 126 dB
- Frequency response at -10 dB: 40 Hz to 300 Hz
- Dimensions (without accessories): 696 x 590 x 474 mm
- Weight: 45.35 kg

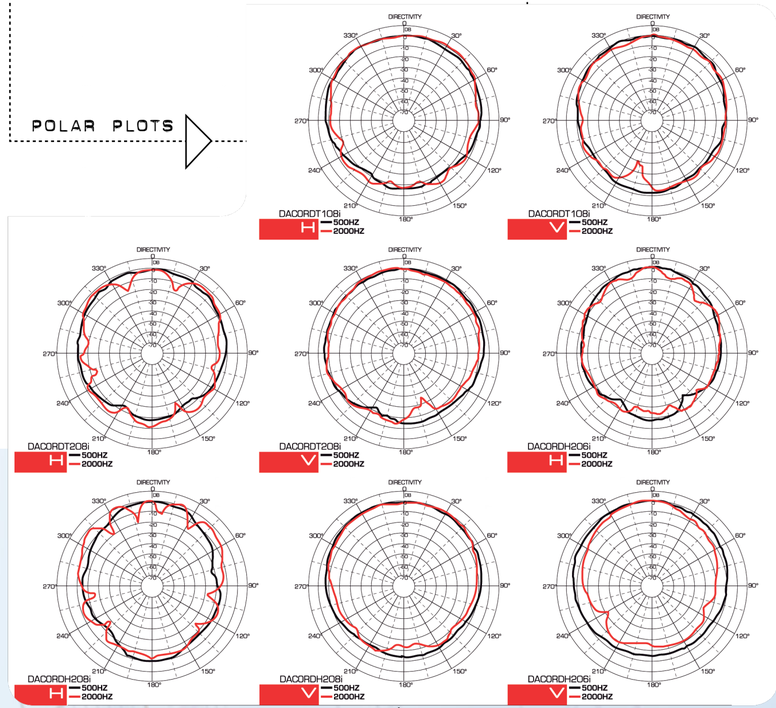
Recommended amplification

- XPA, NZA, DPA/DPA-T and NPA series

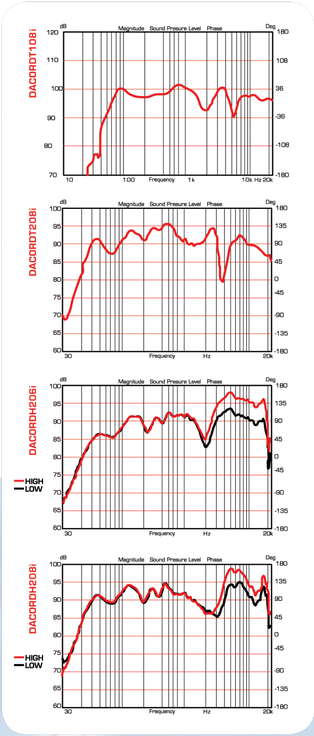
Applications

- Reinforcing DACORDi and AUDEO series

POLAR PLOTS


DACORDT108i H 500HZ 2000HZ
DACORDT108i V 500HZ 2000HZ
DACORDT208i H 500HZ 2000HZ
DACORDT208i V 500HZ 2000HZ
DACORDH208i H 500HZ 2000HZ
DACORDH208i V 500HZ 2000HZ
DACORDH206i H 500HZ 2000HZ
DACORDH206i V 500HZ 2000HZ

FREQUENCY RESPONSE



UMAi series is the optimal solution for a wide range of applications including portable and fixed sound reinforcement, club applications, AV events and any installation requiring professional sound quality and reliability.
Manufactured in 15mm birch plywood, the UMAi series is based in high performance, top quality 12", 15" and 18" woofers and high end compression drivers to provide a clear natural sound for both musical and speech programmes in a compact and light enclosure.

Key features

- 15mm birch plywood full range 2 way loudspeaker cabinets
- Accurate component selection
- Fast set-up thanks to integrated lateral and extra back handles
- Textured black paint finish
- Protective front grid
- M10 internally steel reinforced flying points
- Speakon® connectors integrated in back handle
- 35 mm top-hat pole mount socket

Best choice of amplifiers and processors

- DPA and DPA-T series and AMIC DSP for stereo sound reinforcement applications
- NPA and NZA series with integrated DSP processing and Ethernet remote management
- XPA series

Applications

- Live club performances
- AV presentations and installations
- Corporate productions
- Clubs, Pubs and Bars Installs
- Side fill monitoring
- Church vocal and music playback
- Sports events
- Theme parks

Technical Characteristics	UMA112i	UMA115i	UMASB118i
Ways	2	2	1
Nominal impedance	8Ω	8Ω	8Ω
Max RMS power	350W	450W	500W
Program power	700W	900W	1000W
Efficiency SPL 1W 1m	98dB	100dB	102dB
Frequency response at -3dB	55Hz÷19.5kHz	47Hz÷19.5kHz	45Hz÷15kHz
Filter cut-off frequency (slope -6& -12dB/oct)	3.5kHz	3.5kHz	-
Dispersion	(50°-100°)x55°	(50°-100°)x55°	-
Dimensions WxHxD (without feet)	448x580x395mm	507x650x456mm	507x645x513mm
Weight	21.3kg	25.2kg	32.6kg

12x M10 flying points

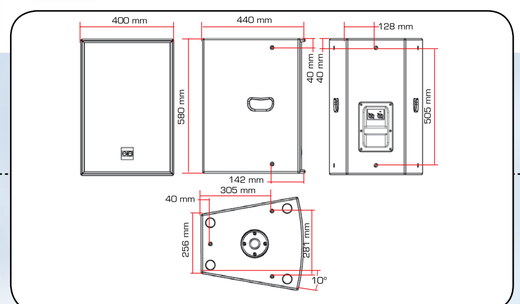
UMA112i

Compact trapezoidal loudspeaker cabinet essentially targeted for applications which call for compact size, excellent output and ease of transportation.

- 350 W RMS / 8ohms
- 12" woofer. 77mm voice coil. Ceramic magnet
- 1" Mylar compression driver mounted in an axis asymmetrical horn:
  - 50° - 100° H dispersion
  - 55° V dispersion
- 35mm top hat fitting
- Stackable or pole mounting on UMA SB118i sub-bass

Accessories UMA112i

- **TRIP01**: adjustable 35mm tripod
- **POLE01**: adjustable 35 rod for UMA112 pole mounting on UMASB118i
- **SR12**: wall bracket



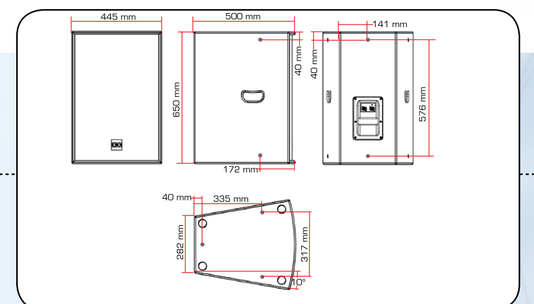
UMA115i

Compact trapezoidal loudspeaker cabinet essentially targeted for applications which call for compact size, high power and ease of transportation under a 15" approach.

- 450 W RMS / 8ohms
- 15" woofer. 100mm voice coil.
- Ceramic magnet
- 1" Mylar compression driver mounted in an axis asymmetrical horn
- 50° - 100° H dispersion
- 55° V dispersion
- 35mm top hat fitting
- Stackable on UMASB118 sub-bass

Accessories UMA115i

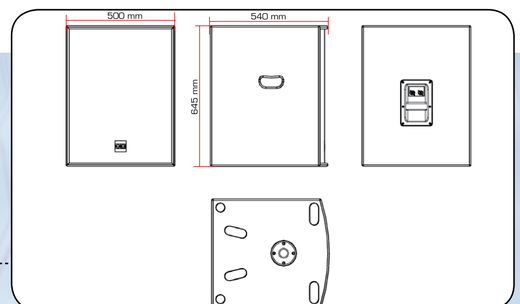
- **TRIP01**: adjustable 35mm tripod



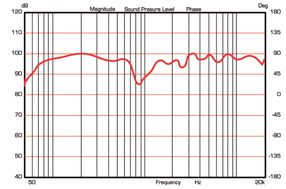
UMASB118i

Sub bass loudspeaker cabinet designed to complement UMAi series. UMASB118i provides extended bass response for applications like live club performances and AV presentations.

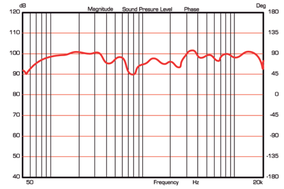
- Sub bass 500 W RMS / 8ohms direct radiating bass reflex enclosure
- 18" woofer. 100mm voice coil.
- Ceramic magnet
- Integrated lateral and extra back handles
- 35mm top hat fitting for UMA112i pole mounting



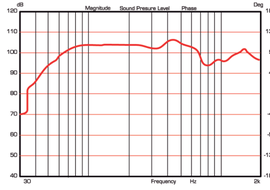
FREQUENCY RESPONSE



UMA112i

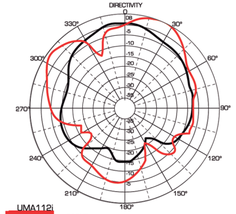


UMA115i

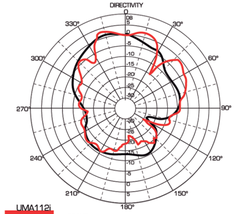


UMASB118i

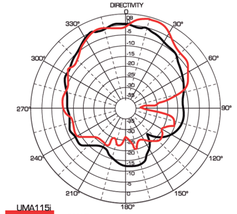
POLAR PLOTS



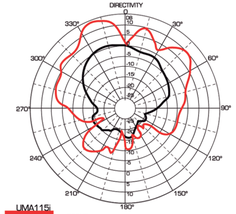
UMA112i H



UMA112i V



UMA115i H



UMA115i V

Long throw loudspeaker cabinets range. Manufactured in 18mm multi-layered Finnish birch plywood. Targeted to long through vocal reproduction as well as music reinforcement applications in adverse acoustic environments.

Key features

- Long throw multi-layered Finnish 18mm birch plywood loudspeaker cabinets range
- Internally reinforced. Trapezoidal shape
- Careful component selection
- Superior efficiency values: up to 112dB 1W/1m
- Scratch and shock proof polyurethane paint finish
- Side handles for easy set up
- 1.5mm protective front grid and acoustically transparent foam against dust and splashes
- Six ISO 7166 air cargo tracks for precise rigging
- Speakon connectors
- EASE 4.1 Files available

CKL110T

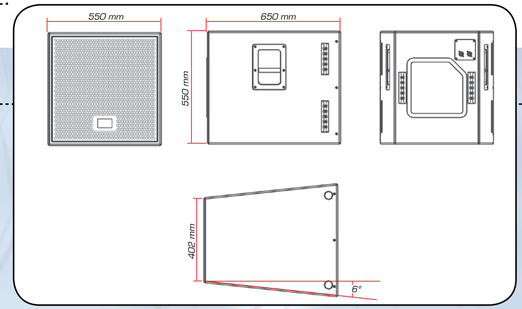
- 2 way, full range mid-high loudspeaker cabinet
- 350 W RMS/8 ohms – 700 W program
- Efficiency: up to 112 dB SPL 1W/1m
- 10" enclosed speaker with neodymium motor and carbon fibre compound diaphragm attached to a Tractix horn with phase corrector
- 2" compression driver with pure titanium diaphragm, neodymium motor
- 60°x40° constant directivity diffuser
- Freq response (-3dB): 170Hz – 19kHz
- Dimensions (mm) : 550x550x650
- 47 Kg

CKLSM115T

- Mid-low frequencies loudspeaker cabinet
- 600 W RMS/ 8 ohms – 1200 W program
- Efficiency: up to 105 dB SPL 1W/1m
- High performance horn loaded 15" speaker
- Freq response (-3dB): 70Hz – 280Hz
- Dimensions (mm): 550x550x650
- 37,2 Kg

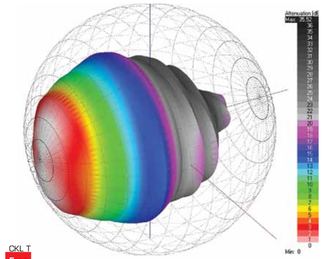
Six air cargo tracks for precise rigging

Technical Characteristics	CKL110T	CKLSM115T
Ways	2	1
Nominal impedance	8Ω	8Ω
Max RMS power	350W	600W
Program power	700W	1200W
Efficiency SPL 1W 1m	112dB	105dB
Frequency response at -3dB	170Hz÷19kHz	70Hz÷280Hz
Horizontal dispersion	80°@250Hz / 60°@4kHz	-
Vertical dispersion	80°@250Hz / 40°@4kHz	-
Dimensions WxHxD (without feet)	550x550x650mm	550x550x650mm
Weight	47g	37.2g



CKL-T SERIES

CKL110T, CKLSM115T



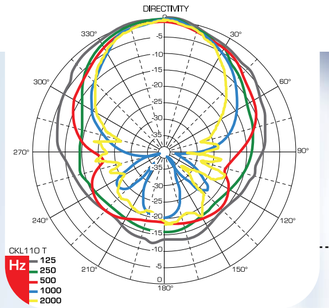
CKL 110T is ready to use with EASE 4.1 prediction software

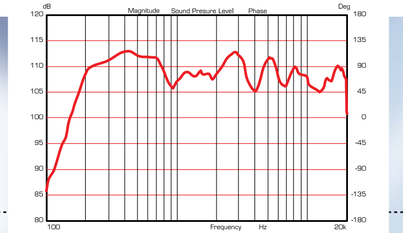
Applications

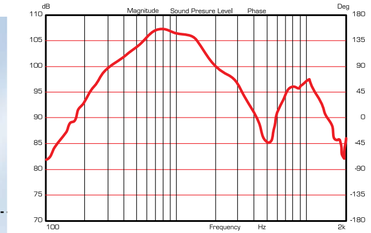
- Speech reinforcement in permanent installation like stadiums, sport pavilions, theatres, congress halls, houses of worship
- CKL SM115T extends low frequency response for music playback in permanent applications and events

Accessories

- **ADP**: cargo restraint double stud and ring
- **BAGCKLT**: CKL110T and CKL SM115 storage and transportation bag







DLA SERIES

DLA4-80, DLA6-80, DLA600

Multi-channel line adaptors permit the use of stereo and multi-channel low impedance amplifiers in 100V/70V applications keeping the best sound quality and ensuring maximum power match and amplifiers' load stability.

Key features

- 2, 4 and 6 channel 100V/70V line adaptors
- Excellent frequency response for optimal audio performance even in the low frequencies band
- Nominal input power handling (DLA4-80 and DLA6-80) : 80 W RMS/4 ohms
- Nominal input power handling (DLA600) : 80/150/300 W RMS/4 ohms
- EUROBLOCK INPUT and OUTPUT connectors
- 1 RU

DLA HIGH QUALITY APPROACH

DLA series uses the best audio autotransformers on the professional audio market.

The use of high quality units, allow amplifiers to drive 100V/70V lines no matter what the frequency band of the input signal.

Hence, amplifiers' possible output saturation is eliminated, thus avoiding the use of internal o external high pass filters that unnecessarily affect final sound quality.

Technical Characteristics	DLA600	DLA4-80	DLA6-80
Input power (nominal)	80/150/300W	80W	80W
input impedance at nominal power	4Ω	4Ω	4Ω
Output voltages	70/100W	70/100W	70/100W
Frequency response (-3dB)	20Hz÷30kHz	20Hz÷30kHz	20Hz÷30kHz
Dimensions (mm)	482.6 x 266.5 x 44	482.6 x 266.5 x 44	482.6 x 266.5 x 44
Weight	12kg	8.42kg	11.36kg

Applications

- Multi-zone and stereo long wire run background and foreground facilities (70/100V lines)

Best choice amplifiers

Every DLA model has been developed to match the following stereo and multi-channel amplifiers:

- **DLA4-80**: MPA4-80R, NZA4-70
- **DLA6-80**: MPA6-80R, NZA6-70
- **DLA600**: DPA600, XPA3000, MPA4-150R, MPA6-150R, MPA4-400R, NZA4-180, NZA6-180

ATA1-1R
DAC110E

ATA1-1R

A single telephone adapter, perfect for medium sized radio stations or any facility requiring impedance adaptation and galvanic insulation at the same time, to adapt line level signals to telephonic lines.

Key features

- 1 RU 19" Single line telephone adapter
- TEL SET , STBY and ON AIR switch: conversation can be held either by telephone or by means of dedicated microphone connected to the mixer in use
- Mixer signal level adjustment control
- Telephone line impedance adjustment control
- RJ11 SET and LINE telephone connectors
- RCA connectors to and from mixer

DAC110E

1 RU, 19" Distribution amplifier and splitter-mixer unit. Perfect choice in installations where a single sound source must be broadcasted to different receivers adapting impedance values and levels.

Key features

- 1 RU 19" Line level distribution amplifier
- Dual operation mode 1 mono input, 10 mono outputs or 1 stereo input, 5 stereo outputs
- 12dB INPUT gain control
- CLIP indicator in all INPUTS and OUTPUTS
- XLR INPUT and OUTPUT connectors
- CUT switch in all OUPUTS

Technical Characteristics		ATAI-IR
Transmiter circuit	Input sensitivity/impedance	-10 dBV/15 kΩ
	Nominal transmission level/600Ω	-10 dBV
	Adjustment margin	-20 to 0 dBV
	Transmission distortion	<0.2%
	Frequency response (-3dB)	280Hz - 3.2 kHz
	Max. output level 1% THD	+10dBV / 600Ω
Receiver circuit	Nominal input level	-10dBV
	Adjustment margin	-20 to 0 dBV
	Telephone line input impedance	>300Ω
	Max. input level	+19 dBV
	Output level/min. load	-10dBV/2.2 kΩ
	Frequency response (-3dB)	280 Hz - 3.3 kHz
	Hybrid return attenuation	>10dB auto adj.
Mains		90-264VCA 47-63Hz
Power consumption		14VA
Dimensions Panel	(w x h) x depth	(482.6 x 44) 195mm
Weight		2.2kg

Technical Characteristics	DAC110 E
Input level/impedance	0 dBV/47 kΩ
Max. input level	+20 dBV
Output level/minimum load	0 dBV/600 Ω
Output impedance	75 Ω
Max. output level (with min. load)	20.2 dBV
Frequency response (-1dB)	2Hz - 95 kHz
Harmonic distortion (1kHz)	< 0.005%
TIM 100 (0 dBV)	< 0.003%
Noise 20Hz - 20 kHz	<-102 dB
CMRR @ 1 kHz	> 60dB
Gain margin	±12 dB
CLIP indicator	-3 dB real clip
LEAKAGE (@ 1kHz)	<-110 dB
Channel crosstalk @ 1kHz	<-80dB
Power consumption	19.8 VA
Dimensions Panel (w x h) x d	482.6 x 44 x 182 mm
Weight	2.7 kg

Applications

- Medium sized radio stations
- General audio distribution/splitter applications in permanent installations

WPmVOL, WPmVOL-J, WPmVOL-SR, WPmVOL-SR-J, WPmVOL-IR, WPmCNX-XLRM, WPmCNX-XLRF, WPmCNX-JRCA, WPmH-AT3, WPmH-AT6, WPmH-SL4, WPTOUCH, REVO-IR

Wall Panels series with magnetic front plate assembly

WPmVOL
Remote wall panel control for one output zone of a MIMO54 unit (zone volume). RJ45 standard connector. Compatible with all Ecler 0-10V DC REMOTE control ports (MPA-R, AMIC, AMPACK, etc.) including the mimo88 GPI ports. Surface-mount installation box included.

WPmVOL-J
Same features as WPm VOL + front panel stereo mini-jack connector.

WPmVOL-SR
Remote wall panel control for one output zone of a MIMO54 unit (source selection and zone volume). RJ45 standard connector. Volume control compatible with all Ecler0-10V DC REMOTE control ports (MPA-R, AMIC, AMPACK, etc.) including the MIMO88 GPI ports. Surface-mount installation box included.

WPmVOL-SR-J
Same features as WPmVOL-SR + front panel stereo mini-jack connector.

WPmVOL-IR
IR to 0-10 V DC interface + IR remote control set. Volume UP, DOWN & MUTE functions converted from IR pulses to VCA voltages. Wall panel blind plate with IR receiver and IR activity LED (green-orange-red). REVO-IR Remote control included. Compatible with all Ecler 0-10V DC REMOTE control ports (MPA-R, AMIC, AMPACK, MIMO54, etc), including the MIMO88 GPI ports. Surface-mount installation box included.

WPmCNX-XLRM
Connection Wall Plate with Male 3 pin XLR connector. Screw-type connector at the back (no solder needed). Surface-mount installation box included.

WPmCNX-XLRF
Connection Wall Plate with Female 3 pin XLR connector. Screw-type connector at the back (no solder needed). Surface-mount installation box included.

WPmCNX-JRCA
Connection Wall Plate with 1 x stereo minijack and 2 x RCA connectors. Surface-mount installation box included

WPmH-AT3
100/70 V line attenuator with integrated 24 VCD priority relay. 3 W maximum output power. Surface-mount installation box included.

WPmH-AT6
100/70 V line attenuator with integrated 24 VCD priority relay. 6 W maximum output power. Surface-mount installation box included.

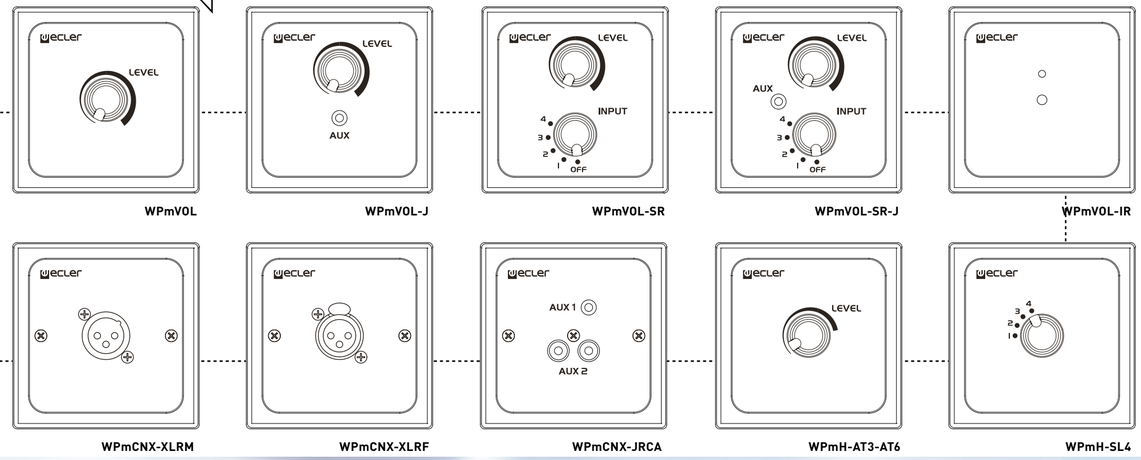
WPmH-SL4
100/70 V line selector (one out of 4 music program lines). Surface-mount installation box included.

WPTOUCH

- Digital remote control, compatible with the MIMO88 digital matrix (CAN-BUS)
- 2 touch-sensitive keys
- 1 touch-sensitive jog wheel
- 1 IR receiver
- 2x16 char. LCD transflective display
- Programmable under the MIMO88 control (digital mode)
- Compatible with the MIMO54 for both volume control and source selection (analogue mode)
- Compatible with other products with 0-10 VDC ports (MPA, AMIC, AMPACK, etc.) for volume control (using an external power supply)
- Recessed or top-wall mount with included accessory

WPm SERIES

WPmV0L, WPmV0L-J, WPmV0L-SR, WPmV0L-SR-J, WPmV0L-IR, WPmCNX-XLRM, WPmCNX-XLRF, WPmCNX-JRCA, WPmH-AT3, WPmH-AT6, WPmH-SL4, WPTOUCH, REVO-IR



WPmV0L

WPmV0L-J

WPmV0L-SR

WPmV0L-SR-J

WPmV0L-IR

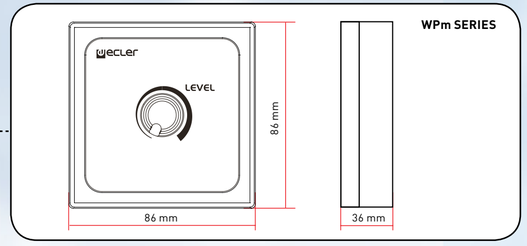
WPmCNX-XLRM

WPmCNX-XLRF

WPmCNX-JRCA

WPmH-AT3-AT6

WPmH-SL4



WPm SERIES

MPAGE SERIES

MPAGE1, MPAGE4, MPAGE16

MPAGE16

MPAGE16 is a digital paging station for the MIM088. It features 21 touch-sensitive keys that, together with the MIMO88 hardware, allow for an easy, flexible and user-friendly configuration of a paging system that can coexist with other MIMO88 functions and with other control hardware and/or software control systems.

Key features

- 16 zone selection keys
- SELECT ALL, CLEAR and PAGE keys
- Two user-defined functions keys (for recalling presets, activating GPOs, etc.)
- Gooseneck integrated microphone
- Several MPAGE16 or software (virtual) paging stations can work simultaneously (priorities and zones availability is managed by the MIM088 software setup)

MPAGE1

MPAGE1 is a 1-zone desktop paging station, compatible with any device including a phantom-powered microphone input (pKUB, SAM series, COMPACT series, AMI2-70, MIMO54, MIMO88, etc.).

Key features

- 1 zone paging station
- PAGE key
- "PAGE ACTIVE" trigger port (GPO), for its connection to external devices
- Gooseneck microphone

MPAGE4

MPAGE4 is the 4-zone desktop paging station for the MIMO54, allowing for real-time paging in addition to all the MIMO54 features.

Key features

- 4 zone selection keys
- SELECT ALL, and PAGE keys
- Selectable chime melody
- Gooseneck microphone

DVA1-5C, SVA1-5C

DVA1-5c distribution amplifiers are versatile accessories for video installations requiring distribution of A/V signals to various monitors or video projectors, ensuring minimal loss, maximal signal quality and a guaranteed reliability.

SVA1-5c reversible A/V selector features either one input and five outputs or five inputs and one output signal selection.

DVA1-5C Key features

- Minirack audio and video signal distributors
- Accepts composite baseband video signal (PAL, SECAM, NTSC)
- BNC video INPUT and OUTPUT connectors
- RCA audio INPUT and OUTPUT connectors
- Operation mode switch: 1 INPUT and 10 OUTPUTS
- Video, chrominance and audio level adjustment

SVA1-5C Key features

- 1 RU minirack reversible A/V selector
- Accept composite baseband video signal (PAL, SECAM, NTSC)
- Dual operation mode: one INPUT/five OUTPUTS or five INPUTS/one OUTPUT
- BNC video INPUT and OUTPUT connectors
- RCA audio signal INPUT and OUTPUT connectors

Tech. Characteristics		DVA1-5c		SVA1-5c
AUDIO	Zin	60kΩ approx.	Zin (not selected input)	600Ω approx.
			(selected input)	according to output
	Zout	600Ω approx.	Zout	according to input
	Gain (@ 600Ω load)	±6dB adj.	Input level	according to output
	Max. Out level (@ 600Ω load)	+10dBV	Output level	according to input
	THD	0.05% Typ.	I-R Crosstalk	
	Frequency response	6Hz to 148kHz@-3dB	(@ 1kHz & 600W load)	>85dB
	Noise (Without video)	<-100dB Lin[10Hz-30kHz]	(@ 1kHz & 10kW load)	>50dB
	Noise (With video)	<-87dB Lin [10Hz-30kHz]	Feedthrough (input to	
	Crosstalk	>57 dB Lin [10Hz-30kHz]	any unselected output)	<-110dB
	Mains	Depending on country		
	Power consumption	4.5VA		
	Dimensions Panel	241x44mm	Dimensions Panel	241x44mm
	Depth	195mm	Depth	195mm
	Weight	1.6kg	Weight	1.15kg

		DVA1-5c		SVA1-5c
VIDEO	Zin	75Ω ± 5%	Zin (not selected input)	75Ω
	Zout	75Ω ± 4%	(selected input)	according to output
	Vout (1 Vpp Vin)	0.65Vpp to 1.4Vpp	Zout	according to input
	Chroma Gain (@ 4.43MHz)	-5% to + 35% approx	Input level	according to output
	Diff. Phase5 (10) outs loaded	<0.05 deg.	Output level	according to input
	Diff Gain 5(10) outs loaded	<0.1%	Video to audio crosstalk	
	Bandwith (-3dB) approx	28MHz Gaussian Roll-off	with Cross-hatch pattern	>80dB
	In/out (phase @ 4.43 MHz)	<-18 deg.	Feedthrough (input to	
	Lum. Lin. Error	<1% approx.	any unselected output)	<-40dB @ 4.43MHz
	Vertical tilt (black pattern ref.)	<1% approx.		
	Signal noise rat (100hz to 20MHz)	>65dB		
	Vdc offset at any input	<5mV DC		
	Chroma/Lum. Delay error (@ 10T & 4.43MHz)	18ns LAG approx.		

Applications

- General A/V source distribution and selection

	SAM series	COMPACT series	MIMO54	MIMO88	AMI series	HMA series	pKUB	AMPACK series	HSA series	HZA series	MPA series	DPA series	NPA series	NZA series	AMIC AMIC24	VERSO series	DACORDi series	UMAi series	CKL-T series	DPC 118
WPmVOL	–	–	•	•	•	•	–	•	–	•	•	(1)	•	•	•	–	–	–	–	–
WPmVOL-J	–	–	•	•	•	•	–	•	–	•	•	(1)	•	•	•	–	–	–	–	–
WPmVOL-SR	–	–	•	•	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WPmVOL-SR-J	–	–	•	•	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WPmVOL-IR	–	–	•	•	•	•	–	•	–	•	•	(1)	•	•	•	–	–	–	–	–
WPmCNX-XLRM	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	–	–	–	–	–
WPmCNX-XLRF	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	–	–	–	–	–
WPmCNX-JRCA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	–	–	–	–	–
WPmH-AT3	–	–	–	–	–	–	–	–	•	•	(2)	–	–	(2)	–	–	–	–	–	–
WPmH-AT6	–	–	–	–	–	–	–	–	•	•	(2)	–	–	(2)	–	–	–	–	–	–
WPmH-SL4	–	–	–	–	–	–	–	–	•	•	(2)	–	–	(2)	–	–	–	–	–	–
WPTOUCH	–	–	•	•	•	•	–	•	–	•	•	(1)	•	•	•	–	–	–	–	–
WP-PSU	–	–	(3) (4)	(3) (4)	(3) (4)	(3) (4)	–	(3) (4)	–	(3) (4)	(3) (4)	(3) (4)	(3) (4)	(3) (4)	(3) (4)	–	–	–	–	–
REVO-IR	–	–	(3)	(3)	(3)	(3)	•	(3)	–	(3)	(3)	(3)	(3)	(3)	(3)	–	–	–	–	–
MPAGE1	•	•	•	•	•	•	•	–	–	–	–	–	–	–	–	–	–	–	–	–
MPAGE4	–	–	•	•	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
MPAGE16	–	–	–	•	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DLA series	–	–	–	–	–	–	–	–	–	–	○	○	–	○	–	–	–	–	–	–
SR8	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	○	–	–	–	–
SR12	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	○	○	○	–	–
SR100	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	○	–	–	–
SRDABK/WH	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	○	–	–	–
WH200	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	○	–	–	–	○
QRA	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	○	–	–	–	○
ADP	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	○	–
TRIP01	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	○	○	○	–	–
POLE01	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	○	○	○	–	–

- • Full Compatible
- ○ Compatible with some models (check particular model)
- - Not compatible

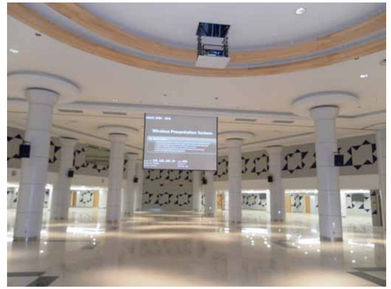
(1) When including AMIC module
(2) When including DLA module
(3) When including WPTOUCH
(4) When including MPAGE16

EDUCATION

Surrey University (UK)

Bogdanka mines (Poland)

Electrolux (Hungary)



Telecom Malaysia

CORPORATE

Nokia Care (Singapore)
Haitong Group (China)
Telecom Malaysia
Electrolux (Hungary)
Bogdanka mines (Poland)

INSTALLATION REFERENCES

Haitong Group (China)

Nokia Care (Singapore)

COMMERCIAL

Shoppes at Marina Bay Sands (Singapore)

HOSPITALITY

Le Fouquet (Paris - France)
Fullerton Bay Hotel (Singapore)
Midpoint restaurants (Turkey)
Oasia Hotel (Singapore)
Changi Village Hotel (Singapore)

Changi Village Hotel (Singapore)

Oasia Hotel (Singapore)

Le Fouquet (Paris - France)

Fullerton Bay Hotel (Singapore)

Midpoint restaurants (Turkey)

SPORTS & WELLNESS

Affinity Spa (India)
Palau de Gel FC Barcelona (Spain)
Oxygen Wellness (Hungary)

LEISURE

Maybach Museum (Germany)
Underdoggs Sports Bar (India)
Teatro Livorno (Italy)
Foire du Trône (Paris)

INSTALLATION REFERENCES

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Affinity Spa (India)

Palau de Gel FC Barcelona (Spain)

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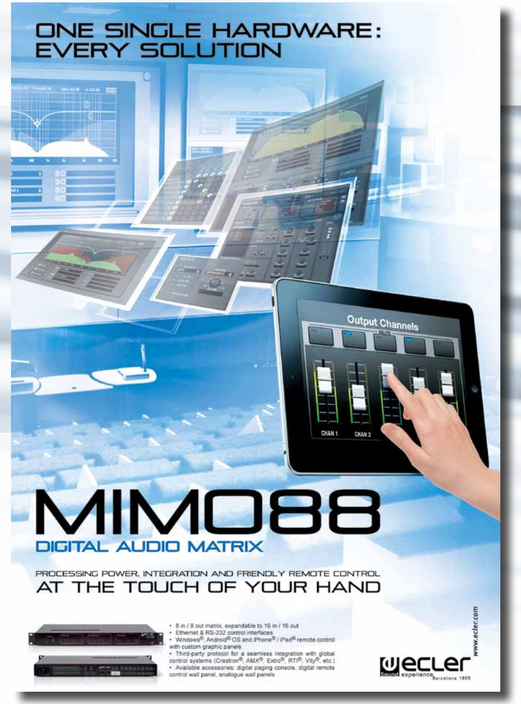
INSTALLATION REFERENCES

ADVERTISEMENTS

MIMO88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EVERY SOLUTION
Output Channels
CHAN 1
CHAN 2
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AT THE TOUCH OF YOUR HAND
• 8 in / 8 out matrix, expandable to 16 in / 16 out
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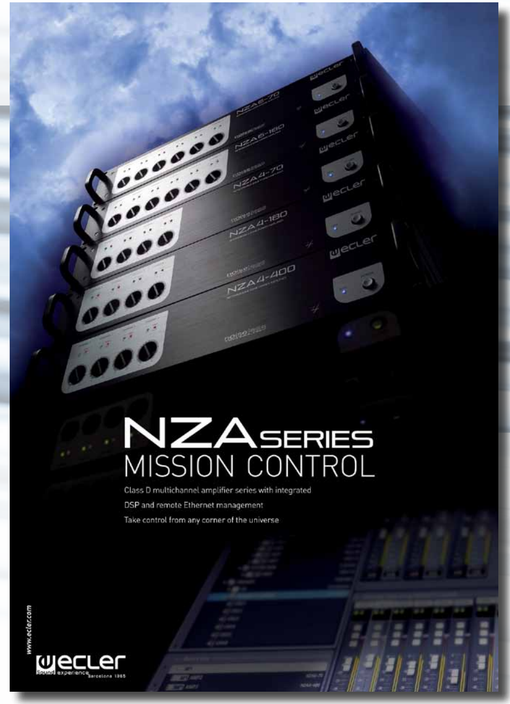
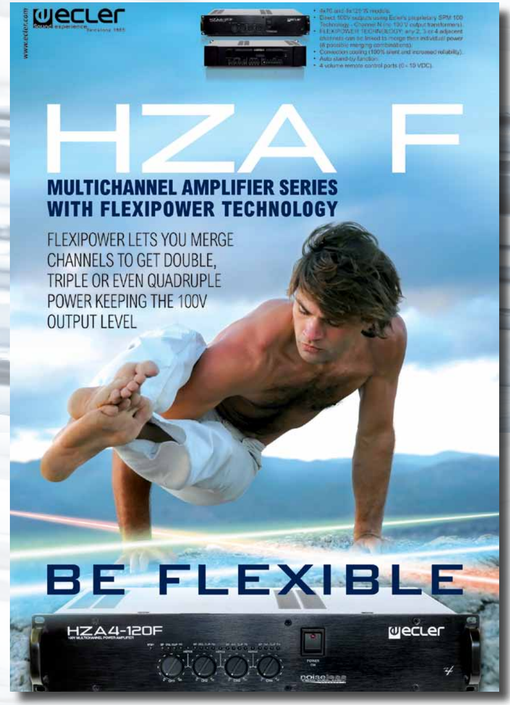
• Available accessories: digital paging console, digital remote control wall panel, analogue wall panels
www.ecler.com

NZA SERIES



HZA-F SERIES



AUDEO SERIES

audeo series
The AUDEO series is fruit of the collaboration of Ecler with Giugiaro Design, firm awarded as Car Designer of the Century.
Its innovative design, together with its high quality audio, make this series the ideal solution in a variety of architectural projects.
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DESIGN
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ICPLUS SERIES

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ENERGY CONSERVATION
Ecler maximises energy conservation by utilising SPM Technology (patented by ECLER) in our amplifiers. Switching Power Mosfet technology is more efficient (73%) than bipolar transistors and conventional mosfets. The benefit of SPM technology is that most of the consumed power is converted into real audio power and less energy is wasted (via heat & processing)
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Ecler ensures higher efficiency (more than 90%), lower weight (30% average) and smaller heatsinks (6 times smaller) by using class D amplification technology (Pulse Width Modulation), both in the stand-alone format devices and our integrated self-powered speakers and mixers
Higher efficiency (up to 92%) by using Power Factor Correction (PFC) in many of our digital amplifiers. Few audio manufacturers integrate PFC in their products
All the above technologies applied to Ecler's products have two immediate environmental advantages:
The amplifier's power consumption is significantly reduced
The air conditioning power required to keep an installation in proper working conditions is also reduced
ENERGY SAVING
Energy saving during the transportation thanks to the ultra-light weight and compact sizes of the latest generations of amplifiers, like XLA, AMPACK and PKUB
Many of Ecler's products include the Auto Standby function, which again drastically reduces the power consumption (usually bellow 3 Watts), in this case during the periods the device is not utilizing full functionality
NO CONTAMINANT COMPONENTS
Ecler avoids the use of contaminant components and ensures recycling benefits are realised after the product lifetime, fulfilling ROHS (Restriction of Hazardous Substances) and WEEE (Waste Electrical and Electronic Equipment) regulations
Ecler enforces careful selection and disposal procedures of the electronic waste in all our production processes to guarantee minimal environmental impact
RECYCLED MATERIAL
Ratio of recycled material in packaging is 70%. This 70% recycled carton ratio ensures that the final result fulfils our drop & transportation test standards. Although recycled carton is weaker than fibre based products, we insist on the maximum % of recyclable material while still ensuring the packing endurance target. Apart from this ratio, our outer carton packing is always 100% recyclable at the end of its use
Our packaging providers have raw material suppliers that follow a sustainability policy to help ensure that the total forest surface in Europe grows every year
Environmentally Sustainable AV
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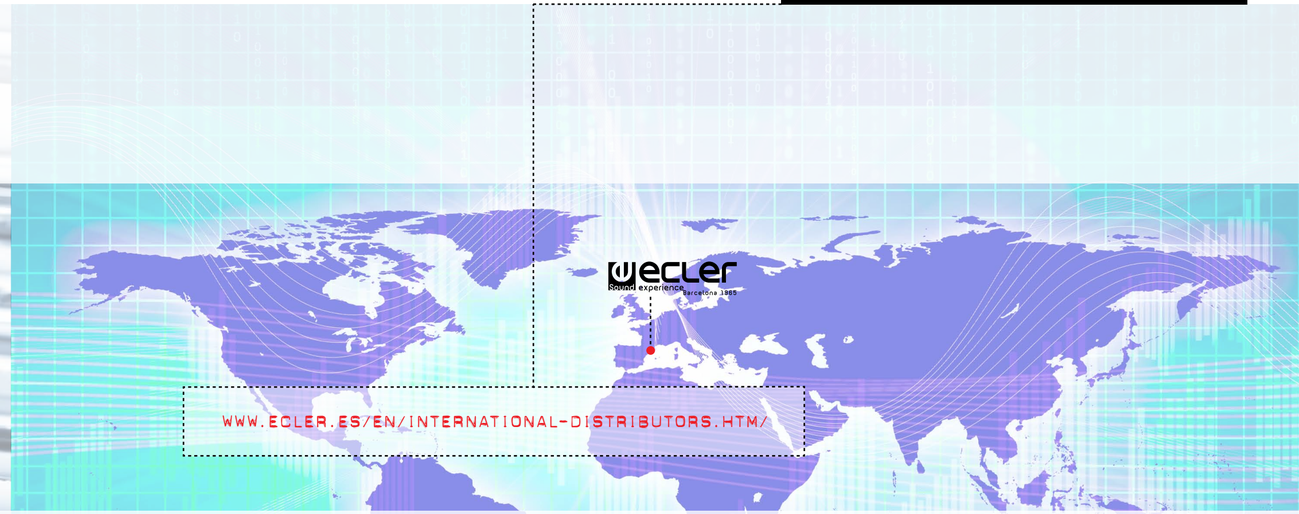

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